

Program Description of Training Course on Rice Processing Technology for Developing Countries

Name	Training Course on Rice Processing Technology for Developing Countries		
Organizer	Yuan Longping High-tech Agriculture Co.,Ltd.		
Time	September 13 th ~October 12 th ,2022	Language	English
Invited Countries	Developing Countries	Number of Participants	25
Purpose	<p>This training aims to 1) make an introduction to China's national conditions and culture , 2) focus on introducing rice processing technology so that the participants can apply the relevant technology in their own country, 3) share China's successful experience to provide a reference for developing countries to improve rice processing technology, and 4) promote mutual exchanges and cooperation between China and developing countries in the field of rice processing.</p>		
Requirements for Participants	Professional Background	--Area or specialty: working and specialty in agriculture fields --Position: Government officials, researchers and technicians in related agriculture fields	
	Age	Not exceed the statutory retirement age in participant's own country	
	Health Condition	Be in good health and capable of attending online courses as scheduled	
	Language Proficiency	Fluent in English (listening, reading, speaking and writing)	
	Others	Participants have access to software such as the Zoom or VooV Meeting. The organizer will provide guidance and technical assistance remotely.	
Training Content	<p>1. Training objectives</p> <p>The training aims to strengthen cooperation and exchanges between China and developing countries in the field of agriculture, especially rice processing. It will last for 30 days, with English as the working language. The training will be conducted through online lectures, exchange meetings, online visual visits and visual internships. Well-known industry experts and scholars and representatives of agricultural high-tech enterprises of China will be invited to give lectures. The training program will focus on introducing and sharing basic knowledge of rice grains, primary and deep processing technology of rice, rice grain storage technology and rice grain inspection and quality management and other techniques. Special sessions will also be organized on specific practical cases to inspire trainees to think about relevant initiatives to improve rice processing technology in developing countries.</p> <p>2. Main training courses 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) Experiences of daily prevention and control of the COVID-19 epidemic: Introduction to the successful experiences of daily prevention and control of the COVID-19 epidemic in China and</p>		

related countermeasures.

(3) Overview of China's agricultural development: Introduction to the main achievements of China's agricultural development; basic experience of China's agricultural development; future countermeasures for China's agricultural development.

(4) Basics of rice processing and rice primary processing technology: Focuses on the classification of rice varieties and structural characteristics of the seeds, rice cleaning, hulling and milling, finishing of finished products, rice processing processes, and rice processing production management.

(5) Rice refined processing technology: Introduction to the purpose and significance of rice deep processing; methods and process requirements for nutritional fortification of rice; types of various rice products and production processes.

(6) Rice grain storage systems: Focus on the physical and physiological properties of grain, the chemical composition of grain, quality changes between storage and the ecological system of grain storage, low-temperature storage, and air-conditioned grain storage.

(7) Rice storage and quality inspection systems: Overview of grain quality and hygiene standards, food safety problems that are likely to arise after grain harvest, quality evaluation and inspection techniques for rice and paddy, and standards for grain inspection methods.

(8) Storage of rice: Introduce the types of grain storage facilities, good storage requirements, different storage systems, storage hygiene, control of storage insects and other related knowledge and technologies, and Conduct exchanges and discussions around this topic.

(9) Introduction of rice processing machinery: Focus on the introduction of modern rice processing equipment and the applications of other machinery related to rice processing, and demonstrate the advanced technology and equipment in rice processing industry.

3. Online virtual visits

(1) Online virtual visit will be arranged in Hunan Xiangliang Machinery Manufacture Co., Ltd to learn about the main agricultural machinery related to rice grain production, processing and storage and to exchange agricultural machinery operation and cooperation.

(2) Online virtual visit will be arranged in well-known companies and sites related to grain storage and processing in Hunan province, to learn about the application of expertise related to grain production, processing and storage in actual production and processing, and to enhance technical exchanges with Chinese grain industry companies and experts.

4. Introduction of Online virtual fields

Online virtual practice and visits on rice processing techniques will be arranged.

5. Brief introduction of lecturers and professors

(1) Prof. Liu Ying, Professor at Wuhan Polytechnic University, whose main research interests are cereal processing technology, cereal quality analysis, cereal resource development, editor-in-chief of cereal processing engineering, rice processing technology, etc. She has won many

provincial and municipal awards in the field of deep processing of rice, and has been a visiting scholar in Moscow, Germany and Austria in the former Soviet Union.

(2) Prof. Zhang Wei, Associate Professor of Wuhan Polytechnic University, whose main research interests are grain storage technology, has won awards in the National Key Research and Development Program sub-project research on the succession pattern and prediction model of rice grain pile mould system in the middle reaches of Yangtze River, and has been teaching courses on grain and oil storage and food safety preservation since 2013.

(3) Prof. Ni Xiaoying, Senior Engineer, whose main research interests are security and quality control of cereals, oils and foodstuffs, has presided over 10 revisions of food industry standards; led the development of the method standard *Inspection of Grains and Oils -- Rapid Determination of Cadmium in Rice -- X-ray Fluorescence Spectrometry*, which is the first of its kind in the world and fills the gap of this technology in China. She has presided over 3 provincial and ministerial level scientific research projects and participated in 6 scientific research projects; completed 2 invention patents; obtained 1 book copyright; completed 1 registration of results; published more than 20 papers.

(4) Prof. Wang Chaoying, Senior Engineer, has worked in the grain processing industry for more than 30 years; served successively as such as engineer of a rice mill company, director of a rice mill, production management manager of a large listed rice company, etc; has won the first prize of Changde Science and Technology Progress Award, and participated in foreign aid training in 2013.

(5) Prof. Huang Zhiyuan, Researcher, whose research interests are in super rice hybrid advantage mechanism, molecular breeding, hybrid rice cultivation physiology, food security storage. He has published more than 20 papers and more than 10 patents. He has participated in and undertaken research on molecular breeding of super rice and molecular mechanism of super rice hybrid advantage for the special genetic modification and major special projects of the Ministry of Agriculture of the PRC, and has achieved a series of results. He has many years of experience in foreign aid training and lectures on comprehensive courses on hybrid rice breeding topics and grain processing and storage.

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

(7) 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.

(8) Prof. Tan Yanping, Associate Professor of Hunan Agricultural University, has ever been to San Francisco to teach Chinese as a foreign language for one year in 2006. She began to participate in the China Aid training program in 2008.

(8) Dr. Tan Chongqing, Deputy Director of the Institute of Clinical Pharmacy, Central South

	<p>University, whose main research direction is the application of Chinese medicine. His lectures are mainly about the Chinese experience of prevention and control of the COVID-19 epidemic.</p> <p>6. Materials to be prepared by the trainees</p> <p>In order to facilitate exchanges with Chinese experts, please prepare materials related to the subject of the training of your country, such as: <input type="checkbox"/>Introduction of your profession and your unit; <input type="checkbox"/>Current status and existing problems of rice processing in your country; <input type="checkbox"/>The cooperation between your country and other countries or international organizations in rice grain processing ; <input type="checkbox"/>The agricultural cooperation between your country and China; etc.</p> <p>7. Final test/assessment</p> <p>In the form of tests or essays</p>		
Host City	Changsha City, Hunan Province	Cities of Virtual Tours	Changde City, Hunan Province (subject to change)
Notes	<ol style="list-style-type: none"> 1. The training program will be held online, which requires participants to prepare necessary equipment and devices such as internet connection, computer, microphone, camera, etc. 2. Participants should be punctual and well-disciplined. The Certificate of Completion will be issued to those who meet all the requirements including good attendance records. 3. Participants should enter the virtual classroom in advance with the screen name “NAME + COUNTRY” identical to the passport information. 4. Participants should respect and maintain the confidentiality and security of the information and data concerning the Seminar. Course materials will be shared to participants after class, which shall not be made public or posted via social media. 5. Participants should prepare report for discussion session(s) as scheduled. 		
About the Organizer	<p>Yuan Longping High-tech Agriculture Co., Ltd. (hereafter Longping High-tech) is an international seed company named after the Academician Yuan Longping, the “Father of Hybrid Rice” and the honorary chairman of the Longping High-tech. CITIC Group is the controlling shareholder. Established in 1999 and listed in 2000, Longping High-tech ranks the 8th of seed industry around the world in terms of comprehensive strength. Longping High-tech was 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, etc.. The company built a globalized commercial breeding system. With more than 10% of its operating income in R&D investment, Longping High-tech has established R&D centers in China, the Philippines, Pakistan, India, Brazil and USA, etc.. Its R&D and innovation capabilities 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</p>		

	<p>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 agricultural cooperation, and has trained nearly 10,000 agricultural talents from more than 100 countries in Asia, Africa and Latin America, the South Pacific Region. Besides, it has undertaken more than ten China-aid projects on technical cooperation, helping developing countries develop agriculture and solve food security with China's advanced agricultural technology, and making a significant contribution to global food security.</p>
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