

Document of China Nitrogen Fertilizer Industry Association

Issued by CNFIA, Document No. 036

Notice of 2015 China Nitrogen Fertilizer and Methanol Technology Conference

To all related enterprises,

In order to promote the innovative development and green development in Nitrogen Fertilizer and Methanol Industries, and improve the industrial development quality and economic benefits, China Nitrogen Fertilizer Industry Association (CNFIA) will organize “2015 China Nitrogen Fertilizer and Methanol Technology Conference” in Erdos City, Inner Mongolia, PR China during July 16~18, 2015, in which the technological achievements innovated and developed in recent years, and the experiences and measures in energy saving & emission reduction, and product quality improvement will be exchanged. We herewith inform the relevant issues as following:

1. Conference Theme

Innovation-driven and Green Development

2. Conference Organization

Organized by : China Nitrogen Fertilizer Industry Association

Supported by : ChinaCoal Erdos Energy & Chemical Co., Ltd.

Inner Mongolia Berun Holding Group Co., Ltd.

Hofung Technology Co., Ltd.

Green Granulation Technology Limited

3. Conference Contents

- 1) **Inviting the famous leaders and experts of chemical industry to make special reports and presentations to guide industry development.**
- 2) **Exchange of innovations achieved in recent years in processes and equipments and materials etc. in the technological fields of coal gasification and gas purification and ammonia synthesis and methanol synthesis.**
 - i. Innovation achievements and engineering application experiences of advanced coal gasification technology;
 - ii. Innovation achievements and engineering application experiences of carbon monoxide conversion and other gas purification technologies;
 - iii. Innovation achievements and engineering application experiences of large scale of ammonia synthesis and methanol synthesis technologies;
 - iv. Catalyst technologies progress of ammonia synthesis and methanol synthesis in and outside of China.

3) Innovation achievements and exchange of production management experiences of energy saving and emission reduction technologies.

- i. Technology measures and management experience introduction by “Energy efficiency top runners of ammonia and methanol productions”;
- ii. New technologies of energy saving and emission reduction and capacity expansion revamp in ammonia and methanol and urea productions;
- iii. Experiences of production wastewater zero discharging and technical exchanges of high efficient water-saving equipments and advanced water-saving technologies;
- iv. New technology exchange of three waste treatment and resources comprehensive utilization.

4) Researches of product quality improvement and product competitiveness promotion

- i. Quality problems of Chinese granular urea product in international trade
- ii. New technologies of urea granulation production
- iii. Technological measures of granular urea product quality improvement
- iv. Research and formulation of the Industrial Quality Standard of granular urea product

5) Visiting Fertilizer Plant of ChinaCoal Erdos Energy and Chemical Co., Ltd.

4. Conference Participants

- 1) Leaders and production & technical managers from nitrogen fertilizer, methanol production enterprises, coal to gas and coal chemical enterprises.
- 2) Leaders and technical & marketing managers of technologies, equipments, material suppliers, scientific researchers, design Institutes and engineering companies,

5. Conference Agenda

- 1) July 15: Registration
- 2) July 16-17: Exchange meeting
- 3) July 18: Visit & Investigation

6. Conference Place and Transportation

Place: Howard Johnson Parkview Plaza Erdos

Address: Middle of Otog west street, Dongsheng District, Erdos city, Inner Mongolia

Transportation:

1) By airplane:

It's 45 kilometers from Erdos airport to the hotel, it will cost around Rmb150.- if by taxi to the hotel (40 minutes), or take airport bus to Dongsheng South Station which will cost Rmb40.- for each person (75 minutes), then transfer No. 55 bus to Lianbang Building or by taxi at Rmb15.- to the hotel.

2) By train:

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3) By coach:

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Remarks:

It will be the peak tourism season in Erdos during the conference and hotel room resource will come short. Please confirm your participation with CNFIA before July 10th in order for room reservation. Hotel charge will be Rmb320.- /(day room) for the deluxe king size room, and Rmb350.- /(day room) for the deluxe twin room, and Rmb600.- /(day room) for luxury suite.

China Nitrogen Fertilizer Industry Association (CNFIA)

(Sealed)

June 16, 2015

Appendix: Conference presentation and main thesis**1. Speech and report made by famous leaders and experts of the Industry.**

- 1) Leader speech (Li Yongwu who is chairman of the council of China Petroleum and Chemical Industry Union by three times)
- 2) Experts report (Gu Zhongqin who is president of China Nitrogen Fertilizer Industry Association, president of Petroleum and Chemical Planning Institute)

2. Experience introduction by energy efficiency top runners of ammonia and methanol productions and model enterprises.

- 1) Running condition introduction of BGL gasification burner and system zero release unit (ChinaCoal Erdos Energy & Chemical Co., Ltd.)
- 2) Deep plowing natural alkalis, based on coal resource to realize recycling (Inner Mongolia Boyuan Holding Group Co., Ltd.)
- 3) Technology measures and management experience of energy saving and emission reduction introduction by model enterprise of energy efficiency top runners of ammonia and methanol productions (Shangdong Hualu Hengsheng Chemical Co., Ltd.)

3. Coal gasification and production technology of ammonia and methanol

- 1) Coal gasification nitrogen fertilizer enterprises' competitive analysis and technology measure of innovation development and green development based on safe market situation (Jincheng Coal Industry Group Coal Chemical Bureau)
- 2) Operation condition of YM burner 500 kpta methanol unit and technology economic analysis of 200 kpta methanol to oil unit (Yunnan Xianfeng Chemical Co., Ltd.)
- 3) Construction and operation experience summary for 600 kpta synthesis unit of Yangmei Cangzhou Zhengyuan (Hebei Yangmei Zhengyuan Chemical Group Co., Ltd.)
- 4) Operation Summary of "one head two ending" 200 kpta synthesis ammonia (methanol) unit (Anhui Haoyuan Chemical Group Co., Ltd.)

- 5) To improve energy efficiency and safety of old synthesis ammonia plant by using KBR's revamp technology (KBR)
- 6) To decrease using quality of natural gas dramatically in synthesis ammonia plant by using KRES-ESTM technology (KBR)
- 7) Revamp experience of gas saving, energy saving, emission reduction, efficiency increase technology for natural gas fertilizer (PetroChina Ningxia)
- 8) Construction and production operation condition of new type coal gasification synthesis ammonia and methanol unit (China Nitrogen Fertilizer Industry Association)
- 9) Comprehensive technology report of Hangtian powdered coal gasification (Hangtian Changzheng Chemical Engineering Co., Ltd.)
- 10) Temperature control exchange technology and application (Huashuo Science Technology Co., Ltd.)
- 11) Brief introduction for controllable moving heat exchange technology's application in all kinds of coal chemical exchange unit (Nanjing Dunxian Chemical Technology Co., Ltd.)
- 12) Experience summary for engineering project of energy saving deeply exchange and controllable moving heat exchange process (Anhui Haoyuan Chemical Group Co., Ltd.)
- 13) Experience summary for sulfur recovery clean production of Keyang H₂S acid making ECOSA® process guarantee. (Keyang Environment Engineering (Shanghai) Co., Ltd.)
- 14) Design idea for 1800 kpta methanol synthesis unit (Hunan Anchun Hi-Tech Co., Ltd.)
- 15) Application summarize of super big type of low pressure ammonia synthesis (Nanjing Jutuo Chemical Technology Co., Ltd.)
- 16) Application summary of 600 kpta low pressure ammonia synthesis system (Shandong Runyin Biochemical Co., Ltd.)
- 17) Proposal of synthesis ammonia / methanol unit change to co - production of ethylene glycol and new technology progress of WHB coal to polymer grade ethylene glycol (Huashuo Science technology Co., Ltd.)

4. Urea Production Technology

- 1) Production status of international and domestic urea products and different development (China Nitrogen Fertilizer Industry Association)
- 2) Based on ammonia gas stripping urea technology innovation to improve urea plant efficiency (Saipem S.P.A)
- 3) New ideas of improving synthetic tower safety of liquid full cycle urea unit and saving energy & decreasing loss (Sichuan Taihongxiang Energy Conservation and Environmental Protection Technology Co., Ltd.)
- 4) Urea production technology of JX energy saving type (Sichuan Jinsheng Sairui Chemical Co., Ltd.)
- 5) Revamp proposal research for gas saving of small and middle type urea by using CO₂ gas stripping method (Sichuan Taihongxiang Energy Conservation and Environmental Protection Technology Co., Ltd.)
- 6) The unique features and advantages of the Cold Recycle Granulation Process (Green

Granulation Technology)

- 7) Operation condition of large granular urea product unit and main measures of improving urea production quality (ChinaCoal Erdos Energy & Chemical Co., Ltd.)
- 8) Historical retrospect of China urea large granular production and opportunity and challenge facing (Hofung Technology Co., Ltd.)
- 9) Assuring Premium Product Quality (UreaKnowHow.com)
- 10) SBN - partner of nitrogen fertilizer industry worldwide for delivery of critical equipment and providing of services (Schoeller-Bleckmann Nitec GmbH)
- 11) Quality materials production for the Fertilizer Industry (Tubacex S.A.)