

T/21.1 (2018)  
23<sup>rd</sup> July, 2018

Dear Sir,

**Subject: Group Discussion on "Operation and Maintenance Problems of Ammonia Plants" during 6<sup>th</sup> – 8<sup>th</sup> September, 2018 at NFL-Bathinda, Punjab**

Ammonia is the key intermediate for making variety of nitrogenous fertilisers. Efficiency of ammonia plant is crucial for the productivity of downstream plants. Manufacturing of ammonia is very complex process involving a number of catalytic reactions. Extreme temperatures and pressures are encountered in the plant. Complexities in ammonia process require high level of acumen for efficient operation as well as dexterity in maintenance for safety and reliability of the plant. Operation and maintenance play a vital role in reliable operation and for achieving high energy efficiency of ammonia plants. There are 38 ammonia plants operating in the country and a vast pool of knowledge and experience is available within the industry. Sharing of such experience and knowledge through discussion has proved to be extremely useful in the past.

In this context, FAI has scheduled next Group Discussion on "Operation and Maintenance Problems of Ammonia Plants" during 6<sup>th</sup>-8<sup>th</sup> September, 2018 at National Fertilizers Limited, Bathinda, Punjab. The programme includes visit to the facilities of National Fertilizers Limited, Bathinda. NFL-Bathinda changed its fuel oil based gasification process to natural gas reforming process in 2013.

Objective of the Group Discussion is to take advantage of in-house expertise of the industry for improving knowledge base of plant personnel. Programme is targeted at engineers engaged in operation and maintenance of ammonia plant. Participants will be required to send in advance a brief description of the problems to be discussed in order to draw the agenda for the discussion. Format for providing the information is enclosed.

NFL has agreed to host the Group Discussion at Bathinda on payment basis and provide the logistic support to the programme. A participation fee of USD 500/- (US Dollars five hundred only) per participant plus 18% GST for single occupancy will be charged. The fee will cover cost of boarding and lodging for 4 nights and programme kit. An instruction sheet is enclosed for further information on the Group Discussion.

We are sure that you would like to avail of this unique opportunity by nominating suitable engineers from your unit from the areas of operation and maintenance of Ammonia plant. Nominees should also be advised to send the problems for discussion well in advance so that these can be listed on agenda for discussion.

Due to limited accommodation available in Guest House at NFL, Bathinda, number of participants will be limited to 40 on first come first serve basis. There are limited number of single rooms and will be reserved on first come first serve basis. The nominations should reach us latest by 24<sup>th</sup> August, 2018. All correspondence on the subject may be sent to Mr. Manish Goswami, Chief (Technical), Phone: +91-11-46005223; Fax: +91-11-26960052 and e-mail: [tech@faidelhi.org](mailto:tech@faidelhi.org).

Thanking you,

Yours faithfully,



(Satish Chander)

## INSTRUCTION SHEET

### Group Discussion on “Operation and Maintenance Problems of Ammonia Plants” 6<sup>th</sup> – 8<sup>th</sup> September, 2018

Guest House  
National Fertilizers Limited,  
Sibian Road, Bathinda,  
Punjab- 151003

1. NFL Bathinda operates ammonia and urea plants commissioned in 1979 based on fuel oil. The ammonia plant was converted to natural gas in 2013 with Haldor Topsoe steam reforming process. The urea plant is based on Mitsu Toastsu total Recycle C Improved technology. The captive power plant is based on coal.
2. Participants will have to send the operation and maintenance related problems of their unit for discussion to FAI (tech@faidelhi.org) in advance for drawing agenda for discussion. The format for collecting the information is attached. The filled-in format may be provided latest by 25<sup>th</sup> August 2018 to be included in the agenda for discussion.
3. The Programme will start on 6<sup>th</sup> September 2018 at 9.00 AM and will be over by the evening of 8<sup>th</sup> September 2018.
4. The stay arrangements have been made from afternoon of 5<sup>th</sup> September 2018 till morning of 9<sup>th</sup> September 2018 (i.e. 4 nights). Stay for additional nights will be chargeable.
5. The NFL has arranged a sightseeing trip to nearby Hussainiwala Boarder (Ferozpur) for Retreat Ceremony on 7<sup>th</sup> September 2018.
6. Location and Transportation
  - 6.1 Bathinda is situated at a distance of 370 kms from Delhi and about 210 kms from Chandigarh. The nearest railway station is Bathinda Junction. The plant is about 6 kms from Railway Station. The nearest airport is Bathinda with limited flights. The second nearest Airport is Chandigarh.
  - 6.2 NFL will arrange for pick and drop from Bathinda Junction railway station. However, pickup and drop from Bathinda or Chandigarh Airport/railway station can be arranged on chargeable basis. Kindly intimate your requirement directly to NFL. The contact person's details are as follows:

Mr. A. V. Shinkhede, Manager (HR), NFL Bathinda, Mobile: +919425617273;  
email: avshinkhede@nfl.co.in

