

T/21.2(2022)
28th December 2022

Dear Sir,

Subject: Group Discussion on "Operation and Maintenance Problems of Urea Plants", 1st to 4th February 2023, Hotel Country Inn by Radisson, Kota

Manufacturing of Urea is a very complex process involving a synthesis step and a number of decomposition and separation stages. There are challenges in maintaining optimum process parameters and use of most suitable MOC for various Equipments. Complexities in process of manufacturing urea require a high level of acumen for efficient operation as well as dexterity in maintenance for safety and reliability of the plant. Operations in optimum mode and reliability of the equipment are vital for achieving high-energy efficiency and product quality, and maintaining high safety and environmental standards. This assumes more significance as plants are getting older and operating at very high load after debottlenecking designed capacity. Numerous technological developments have been incorporated over the years even in vintage plants. There are 41 urea plants in operation. There is a vast pool of knowledge and experience available within the industry. Sharing of such experience and knowledge can help the plant personnel to improve plant productivity and optimise the use of resources.

In this context, FAI is organising the next Group Discussion on "Operation and Maintenance Problems of Urea Plants" during 1-4 February 2023 at Hotel Country Inn by Radisson, Kota. The 4-day programme includes a visit to CFCL, Gadepan plants.


The objective of the discussion is to take advantage of the in-house expertise of the industry for improving overall productivity of urea plants. The programme is targeted at personnel engaged in operation and in mechanical, electrical and instrumentation maintenance. Participants are required to send in advance a brief description of the problems in order to draw up the agenda for discussion. A format for collecting the problem is attached. **It is absolutely essential that we receive problems at least two weeks in advance for inclusion in the agenda.**

A participation fee of Rs 24,500/- (Rupees Twenty four thousand five hundred only) per participant plus GST on double occupancy and Rs. 31500/- (Rupees Thirty one thousand five hundred only) plus GST for single occupancy will be charged from member companies. The fee will cover cost of boarding and lodging for 3 nights and programme kit. The fee for non-residential participants 15000/- (Rupees Fifteen thousand only) plus GST for a member company. An instruction sheet is enclosed for further information on the Group Discussion.

Our past experience shows that such discussions are of immense value to the participants. 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 urea plant. It is requested that nomination(s) should reach us latest by **January 25, 2023**. The payment transfer modes are given in the nomination form.

All correspondence on the subject may be sent to Dr. S. Nand, Additional Director General, Phone: +91-11-46005200; Fax: +91-11-26960052 and e-mail: tech@faidelhi.org.

Thanking you,

Yours faithfully,

(Arvind Chaudhary)

Instruction Sheet

**Group Discussion on
“Operation and Maintenance Problems in Urea Plants”
1-4th February 2023
Country Inn & Suites by Radisson, Kota**

1. **Venue:** The programme venue is
Country Inn & Suites by Radisson,
Plot No. 4 & 5 Rajeev
Gandhi Nagar, Jhalawar Road, Kota, 324005, India
Tel : +91 744 2666 777

Hotel Country Inn & Suites by Radisson is a four-star hotel in Kota located about 11 km from Kota Railway Station. Nearest airport is Jaipur situated at about 250 km from Kota.
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 the programme for discussion. It is absolutely essential that problems be sent to us at the earliest (in advance) to enable to draw the agenda for discussion. The format for collecting the information is attached. The filled-in format may be provided latest by **25th January 2023**.
3. The Programme will start on 1st February 2023 at 1500 hrs and will be over by the afternoon of 4th February 2023. A copy of the tentative programme is enclosed.
4. **The stay arrangements have been made from the afternoon of 1st February 2023 till afternoon of 4th February 2023 (i.e. 3 nights) on double/single occupancy as per nomination by the Company. Stay for additional nights will be chargeable.**
5. Visit to the facilities of Chambal Fertilisers and Chemicals Limited, Gadepan will also be arranged. CFCL operates three large ammonia and urea plants. The CFCL Gadepan Unit I ammonia plant is based on Haldor Topsoe and urea plant technology is Snamprogetti. The ammonia plants of CFCL Gadepan Units II and III are Kellogg and urea plants are based on Toyo. The CFCL Gadepan-III Urea Plant is the largest plant having daily production capacity of 4000 MT per day prilled urea. This urea plant is designed by Toyo Engineering Corporation (Japan) using its best and efficient features like ACES21 technology, Vertical Submerged Carbamate Condenser and improved metallurgy like DP28W material.



REGISTRATION FORM

FAI Group Discussion

“Operation and Maintenance Problems of Urea Plants”

1st to 4th February 2023, Hotel Country Inn & Suites by Radisson, Kota

Dr. S. Nand

Additional Director General

The Fertiliser Association of India,

FAI House, 10 Shaheed Jit Singh Marg,

New Delhi 110067, India.

Tel: +91-11-46005200; Fax: +91-11-26960052

Email: tech@faidelhi.org

Please register the following executive (s):

Sl. No.	Name	Designation	Occupancy Single /Double	Mobile/e-mail*
1				
2				
3				
4				

**please provide contact details for direct communication to participants. (if you wish to nominate more participants, you can use additional forms)*

2. Details of the Organization

Name of the organization:

Address:

Fax :

Email:

For raising invoice, please provide following additional information:

PAN Number:

GST Number:

Billing Address:

(if different from above)

- 3. Registration Fee:**
- | | |
|------------------|--|
| Double Occupancy | -Rs. 24,500/- plus 18% GST per participant |
| Single Occupancy | -Rs.31,500/- plus 18% GST per participant |
| Non-Residential | -Rs.15,000/- plus 18% GST per participant |

4. Payment Options:

A. Demand Draft /at par cheque /NEFT /RTGS (Please tick). Demand Draft can be prepared in favour of “The Fertiliser Association of India” payable at New Delhi

B. NEFT/RTGS: If payment has been made through NEFT / RTGS, please provide the following:

NEFT/RTGS Reference number, Date.....& amount.....

5. Sponsoring authority:

Name & Designation:

Telephone/Mobile:

Email : acctt@faidelhi.org
secy@faidelhi.org
Website : www.faidelhi.org



Telephone : 46005204
Fax : 26960052

The Fertiliser Association of India
Registered Office : FAI House, 10, Shaheed Jit Singh Marg
New Delhi – 110 067
CIN : U85300DL1955NPL002999

Canara Bank

<u>Bank Details:</u>	
Baneficiary Name	THE FERTILISER ASSOCIATION OF INDIA
Baneficiary Address	FAI House, 10, Shaheed Jit Singh Marg, New Delhi – 110 067
Baneficiary Tel.No.	011-46005235
Bank Name	Canara Bank
Bank Address	Jit Singh Marg, New Delhi - 110 067
Bank Telephone No.	011-26960890 / 011-26960593
Bank Fax No.	011-26601661
Branch Name	Jit Singh Marg, New Delhi - 110 067
Bank Code & Branch Code	1484
SWIFT Number / RTGS	cnrb0001484
Bank Account Number	1484101006029
IFSC Code	cnrb0001484
Account Type	Saving Bank
Account Currency	Indian Rupees

Format for collecting Problems related to Operation and Maintenance Problems of Urea Plants

(Additional space may be created wherever required)

A. General Information

1 Name and Location of the Plant

2 Urea plant process technology

3 Number of streams

4 Revamped Capacity (MTPD)

B. Problems Description

Sl. NO.	Section/Area	Description of Problem
I	Ammonia Pumps	
1		
2		
3		
II	Carbamate Pumps	
1		
2		
3		
III	Slurry and other pumps	
1		
2		
3		
IV	CO2 Compressor	
1		
2		
3		
V	Autoclave/Reactor	
1		
2		
3		
VI	Decomposer /Stripper	
1		
2		
3		
VII	Carbamate Condenser	

Sl. NO.	Section/Area	Description of Problem
2		
3		
VIII	Ammonia /CO2 recovery coloum	
1		
2		
3		
IX	Absorbers/ Recovery Vessels	
1		
2		
3		
X	Evaporators/Crystallisers	
1		
2		
3		
XII	Prilling Section	
1		
2		
3		
XIII	Steam Ejector /Vacuum Generator	
1		
2		
3		
XIV	Centrifuge	
1		
2		
3		
XV	Conveyors/Elevators	
1		
2		
3		

Sl. NO.	Section/Area	Description of Problem
XVI	Miscellaenous (Ammonia Pre heater, Heat exchangers, Dryer /cooler, Blower, Fans, Pipings/Valves, others)	
1		
2		
3		
XVII	Instrumentation	
1		
2		
3		
XVIII	Product Quality	
1		
2		
3		
XIX	Waste Water Treatment, Pollution Control, etc	
1		
2		
3		
XX	Safety	
1		
2		
3		
XXI	General Maintenance and Inspection	
1		
2		
3		
XXII	Capacity Enhancement, Revamp and Modification	
1		
2		
3		