

SATISH CHANDER
Director General

THE FERTILISER ASSOCIATION OF INDIA



T/27.1(2019)
January 1, 2019

Dear Sir(s),

Subject: FAI Training Programme for Senior Maintenance Engineers in Fertilizer Industry during 17-22 February 2019, Gandhinagar, Gujarat.

The Fertiliser Association of India organizes need based training programmes for technical personnel in fertilizer industry. The response to these programmes has always been overwhelming. The fertilizer companies in India and from our neighboring countries have been sponsoring their engineers regularly to our programmes.

We are glad to announce the next 6-day residential Training Programme for Senior Maintenance Engineers in the Fertilizer Industry during 17-22 February 2019 at Fortune Inn Haveli, Sector-11, Gandhinagar, Gujarat, India 382011.

The objectives and other details of the programme are given in the enclosed brochure. The programme has been structured to primarily serve the development needs of the maintenance engineers working at senior/middle level in the fertilizer industry. Taking into consideration the specific requirement of the fertilizer industry, the faculty is drawn from the pool of known experts in their respective fields both within and outside the industry. A visit to ammonia and urea fertilizer plants of IFFCO at Kalol is also planned.

We hope that your organization would like to avail of this unique opportunity by nominating maintenance engineers to this programme. The nominations may please be sent in the enclosed Registration Form together with a registration fee of US\$ 1500/- (US Dollars one thousand five hundred only) plus 18% GST per participant towards the programme fee through Demand Draft drawn in favour of The Fertiliser Association of India payable at New York or wire transfer as per details provided in brochure. The fee includes lodging and full boarding (for 6 nights) programme lectures/notes, reading material and cost towards study visit. However, it does not include travel and incidental expenses of the participants.

It is requested that your nomination(s) should reach latest by 8th February, 2019 to Dr. S Nand, Dy. Director General, via Fax/Email as given in the brochure.

Thanking you,

Yours faithfully,

(Satish Chander)

Encl.: As above



FAI Training Programme for Senior Maintenance Engineers in Fertilizer Industry



**17th to 22nd February 2019
Gandhinagar, Gujarat**

**THE FERTILISER ASSOCIATION OF INDIA
FAI House, 10, SHAHEED JIT SINGH MARG
NEW DELHI-110 067**

Tel: +91-11-26567144

Fax: +91-11-26960052

Email: tech@faidelhi.org

Website: www.faidelhi.org

CIN U85300DL 1955NPL002999

Fertiliser Association of India

The Fertiliser Association of India (FAI) is an apex body of all the fertilizer manufacturers in India incorporated in 1955. All the fertilizer manufacturers across the country are active members of the FAI. The Association cooperates actively with the Government of India (GOI) and acts as an interface between the Industry and the Government by maintaining close contacts and rapport. At present, 50 Indian fertilizer companies and other organisations are active members of FAI comprising of the private, public and cooperative sectors. There are about 200 associate members which include suppliers of technology, equipment & catalysts, engineering companies, research institutions, etc. besides 30 overseas members and a large number of individual, technical and professional members.

As a part of our multifarious activities, we organize need based programmes in the areas of production, maintenance, instrumentation, environment, safety, etc. for the benefit of plant personnel. Our programmes attract participants from all major fertilizer plants in India and abroad. The response to these programmes both from within and outside the country has been overwhelming and there have been repeated requests for the continuation of this activity.

Introduction

Maintenance, operational efficiency and safety go hand in hand in all industries. Fertilizer Industry is no exception. The use of complex and sophisticated equipment and systems under severe operating conditions has necessitated the need for keeping pace with advances in techniques of operation, maintenance and inspection of the plants.

Fertilizer plants are capital intensive and the breakeven point is at a high level of capacity utilisation. Equipment, spares and components are sophisticated, expensive and quite often imported. Their replacement, therefore, is costly and involves long lead-time. The magnitude of the problem is compounded by corrosion of critical equipments and interruption in supply of raw materials and utilities. Because of these factors, continuous and efficient operation of the plant is directly related to the level of efficiency of its maintenance. To achieve high operating factors, equipments need to be operated closer to its design capacity. This in turn

requires condition monitoring and predictive /preventive maintenance. Last but not the least, maintenance has to be cost effective.

It is in this context that the FAI, in the interest of the fertilizer industry conducts a special Training Programme for Senior Maintenance Personnel every year so that these men are better equipped to plan and tackle the maintenance problems effectively.

Objectives

Maintenance is treated in the light of the total environment in which it functions: design, engineering, logistics, organisation and philosophy for operation and maintenance. With increasing sophistication, maintenance is concerned with factors such as reliability, availability and maintainability. The objectives of the programme are to raise the level of knowledge and competence of the maintenance personnel, upgrade their skills in order to enhance their on-the-job efficiency and to prepare them for shouldering higher responsibility. The programme will provide the engineers an opportunity to exchange information, share experience and have cross-fertilisation of ideas not only with experts in the field but also with their counterparts. This in turn will lead to improvement in plant productivity.

Course Content

The programme covers practical aspects of various facets of maintenance engineering and management and is structured laying emphasis on maintenance of critical equipment and machinery, and methods and practices to improve maintenance efficiency. The subjects to be covered may be broadly classified into:

- Advances in materials of construction,
- Maintenance of critical static equipments, e.g. reactors, waste heat boilers, etc.
- Maintenance of HP critical pumps,
- Maintenance & Refurnishment of compressors and turbines,
- Maintenance problems in ammonia, urea, acid and complex fertilizer plants,
- Effective maintenance management at unit level,
- Case studies of inspection, repair, replacement and maintenance practices.



The methods of instruction aim at stimulating individual thinking and maximum involvement of the participants in the programme. Each participant is required to present a case study. Emphasis is laid on discussions and sharing of experiences.

Study Visit

A study visit to IFFCO-kalol is also included in the programme. Kalol is the first unit of IFFCO set up in the year 1975 with a capacity of 910 MTPD ammonia and 1200 MTPD urea. With the continuous upgradation of technology, the unit has achieved capacity of 1100 MTPD ammonia and 1650 MTPD urea. Recently, the plant has been revamped to further improve its efficiency and reliability. Some of the major schemes implemented include installation of MP synloop boiler, new single stream turbine for syngas compressor, replacement of secondary reformer burners in ammonia plant and installation of high efficiency trays in urea reactor, changing existing HP loop in urea plant to split flow loop and VAM for CO₂ compressor.

Faculty

The faculty consists of practising experts drawn from the fertilizer industry, engineering companies, vendors and specialised institutions.

Duration

The programme is scheduled from the afternoon of Sunday the 17th February 2019 to the noon of Friday, 22nd February 2019.

The check-in and check out time at the hotel is 1200 hrs. FAI will provide stay for 6 nights. Charges for extra stay will have to be paid by the participant to the hotel directly.

Residential Course

The course is residential. Apart from facilitating administrative arrangements, it provides ample opportunities for informal discussions and better interaction amongst the participants.

Eligibility

The programme is designed for senior/middle level engineers. To derive optimum benefit from it, the participant should be a qualified engineer with more than five years experience in the fertilizer industry. The Training Programme has been developed in consultation with the industry.

Venue



The programme and participants' stay is arranged at Hotel Fortune Inn Haveli, Sector-11, Gandhinagar, Gujarat-382011. The Hotel is equipped with all modern facilities and is situated in the commercial hub of the Gujarat. The Hotel is about 15 kms from Ahmedabad Airport, 4 kms from Gandhinagar Railway station and about 25 kms from Ahmedabad Railway Station.



About Gandhinagar

A planned city, Gandhinagar, Gandhinagar is the state capital with wide streets and lies on the west bank of the Sabarmati River. Gandhinagar is located approximately 23 km north of Ahmedabad, on the west central point of the Industrial corridor between Delhi and Mumbai.



Tourist Attractions : Akshardham Temple, Adalaj Stepwell, Inroda Nature Park, Dandi Kutir

Temperatue : During the time of the Programme expected temperature are maximum 32 °C and minimum 23 °C

Registration Fee

The contribution to defray the expenses during training is fixed at US Dollars 1500/- (US Dollars one thousand five hundred only) plus 18% GST per participant. It covers lodging and full boarding for 6 days, programme lectures/notes, reading material and cost towards study visit. The contribution does not include any other costs like participants' travel and incidental expenses.

Mode of Payment

Payment can be made either of the following :

Draft : Please make Bank Draft payable at **New York** in favour of **'The Fertiliser Association of India'**.

Wire Transfer : Mode of transfer of funds to FAI's Citibank
Account should be as per the details given below:

| | |
|---|--|
| Account Holder's Name | : Fertiliser Association of India |
| Account Holder's Address | : FAI House, 10 Shaheed Jit Singh Marg, New Delhi - 110 067 |
| Account Holder's Bank (Beneficiary Bank) | : CITIBANK, N.A., Delhi |
| Address of the Bank | : Level -1, Gurmehar, A-12, Ring Road South Extn-1, New Delhi - 110 049 |
| Citibank Contact No. | : +91-11-30035000/30035100 |
| Current Account Number | : 0-414462-006 |
| ABA Routing Number | : 021000089 |
| Swift Code | : CITIINBX |
| Intermediary Bank | : CITIBANK, New York |
| Swift Code CITIUS33 and Nostro Account: | 36241797 |
| FAI - GSTIN | : 07AAACT0097M1Z3 |
| FAI - PAN No. | : AACT0097M |

Please fax/email copy of banker's advice to us for follow up.

How to Register

Registration to be made by filling in and returning to FAI the Registration Form (attached) together with the prescribed fee to reach on or before the **8th February 2019**. The Registration Form along with the bank draft should be sent to:

Dr. S. Nand

Deputy Director General
The Fertiliser Association of India
10, Shaheed Jit Singh Marg
New Delhi 110 067
Tel: 011-26567144/Fax: 011-26960052
E-mail: tech@faidelhi.org



FERTILISER ASSOCIATION OF INDIA
FAI House, 10, SHAHEED JIT SINGH MARG
NEW DELHI - 110 067

Registration Form

FAI TRAINING PROGRAMME FOR SENIOR MAINTENANCE ENGINEERS

17th - 22nd February 2019

Fortune Inn Haveli,
Sector-11, Gandhinagar,
Gujarat, India, 382011.

Dr. S. Nand

Dy. Director General
The Fertiliser Association of India
FAI House, 10, Shaheed Jit Singh Marg
New Delhi 110 067
Tel: 011-26567144, Fax: 011-26960052
E-mail: tech@faidelhi.org

Please register the following engineer(s)

His/their particulars are given below :

| Sl. No. | Name | Designation | Email/mobile |
|----------------|-------------|--------------------|---------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| .. | | | |

**please provide a copy of first and last page of passport*

Name of the Organisation

Address

Fax

Email

Enclosed Bank Draft No.....dated.....drawn onfor US \$
-----/ favouring of "The Fertiliser Association of India", payable at New York
contribution for registration of the above delegate (s) @ US\$ 1500/- plus 18% GST per
participant.

OR Wire Transfer: MODE OF TRANSFERRING OF FUNDS TO FAI IS THROUGH ITS
CITIBANK ACCOUNT

"Please transfer in MT 103 format, US\$ _____ on _____ (date) by order of
(senders name) to Citibank, New York for credit to Citibank, NA, Delhi, India's account
no. 36241797 favouring The Fertiliser Association of India for credit to GCB Customer
Current A/c No. 0414462006. The Purpose of remittance is _____."

SWIFT CODE: CITIINBX

Routing (ABA) No.: 021000089

Please fax copy of your banker's advice to us for our follow up.

Sponsoring Authority