

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.

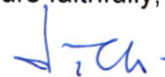
The objectives and other details of the programme are given in the enclosed brochure. The programme has been structured to primarily serve the development needs of the maintenance engineers working at senior/middle level in the fertilizer industry. Taking into consideration the specific requirement of 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 Bank Draft/Cheque/ Bank transfer acknowledgement for Rs. 28,500/- (Rupees Twenty eight thousand five hundred only) plus 18% GST per participant (Double occupancy) or Rs 39,500/- (Rupees Thirty nine thousand five hundred only) plus 18% GST per participant (Single occupancy) towards the programme fee, drawn in favour of "The Fertiliser Association of India" payable at New Delhi. The fee includes lodging and full boarding (for 6 days and 5 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 8<sup>th</sup> 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**



**17<sup>th</sup> to 22<sup>nd</sup> February 2019  
Gandhinagar, Gujarat**

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

Tel: 011-26567144

Fax: 011-26960052

Email: [tech@faidelhi.org](mailto:tech@faidelhi.org)

Website: [www.faidelhi.org](http://www.faidelhi.org)

CIN U85300DL 1955NPL002999

## **Fertiliser Association of India**

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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**

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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**

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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**

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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**

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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 CO<sub>2</sub> compressor.

### **Faculty**

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

### **Duration**

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

The check-in time at the hotel is 1200 hrs on Sunday, 17<sup>th</sup> February 2019 and participants have to checkout by 1200 hrs on Friday, 22<sup>nd</sup> February 2019 (stay for 5 nights). Charges for extra stay will have to be paid by the participant to the hotel directly.

### **Residential Course**

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

## Eligibility

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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

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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

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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

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The contribution to defray the expenses during training is fixed at Rs. 28,500/- plus 18% goods and services tax (GST) per participant on double occupancy and Rs. 39,500/- plus 18 % GST per participant on single occupancy basis. It covers lodging and full boarding (for 6 days and 5 nights), programme lectures/notes, reading material and cost towards study visit. The package will start with the lunch on the 17<sup>th</sup> February (Sunday) and will end with breakfast on the 22<sup>nd</sup> February 2019 (Friday). The contribution does not include any other costs like participants' travel and incidental expenses.

## Mode of Payment

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The payment can be made by drawing a Demand Draft or at par cheque in favour of "The Fertiliser Association of India" payable at New Delhi. The payment can also be acceptable through on-line transfer. The details are given below:

|                       |  |
|-----------------------|--|
| Saving Bank A/c No.   | : 1484101006029  |
| Bank Name and Address | : CANARA BANK,<br>Jit Singh Marg,<br>New Delhi – 110 067 |
| Branch code           | : 1484   |
| IFSC code             | : CNRB0001484  |
| MICR code             | : 110015015  |
| GSTIN                 | : 07AAACT0097M1Z3  |
| PAN No.               | : AAACT0097M   |

## How to Register

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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 **8<sup>th</sup> 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  
FAI House, 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**

**17<sup>th</sup> – 22<sup>nd</sup> 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 :

| <b>Sl. No.</b> | <b>Name</b> | <b>Design.</b> | <b>Email/mobile</b> | <b>Occupancy<br/>Single/<br/>Double</b> |
|----------------|-------------|----------------|---------------------|---|
| 1              |             |                |                     |   |
| 2              |             |                |                     |   |
| 3              |             |                |                     |   |
| ..             |             |                |                     |   |

Name of the Organisation .....

Address .....

Fax .....

Email .....

Enclosed Bank Draft No.....dated.....drawn on .....for  
 Rs. -----/ favouring of “The Fertiliser Association of India”, payable at New  
 Delhi as contribution for registration of the above delegate (s) @ ₹ 28,500/- plus  
 18% GST per participant on double occupancy and ₹ 39,500/- plus 18% GST per  
 participant on single occupancy.

The payment can also be made by online transfer. Details are given in brochure.  
 Please provide details of online transfer.

**Sponsoring Authority**