



NEW INDIA CEMENT ENGINEERING CONSULTANTS

Workshop Cum Training Programme on

Emerging Technologies for Sustainable and Cleaner Production in Cement Plant



12th - 13th April 2023

Lemon Tree Hotel, Ahmedabad - 380001



NICE Consultants Disseminating Knowledge to
Cement Industry for Better Performance

WORKSHOP CUM TRAINING PROGRAMME ON

Emerging Technologies for Sustainable and Cleaner Production in Cement Plant

OVERVIEW

The cement industry has witnessed a remarkable improvement in the technology as well as automation and design of machineries of cement manufacturing in the past one and half decade with plants of capacities from 3000 to 12000 TPD. This has necessitated to put more efforts and upgrade the skills for their efficient operation and maintenance. However, this aspect coupled with lower growth rate, due to sluggish demand as a result of pandemic effect, has made it more prudent to focus attention on Optimization of Operation and use of Emerging Technologies for Sustainable and Cleaner Production in Cement Plants to remain competitive. Further, the norms and standards on energy, environment and quality are also becoming more stringent and thereby making it a challenge to operate and maintain the optimal production. In this regard, Plant Management has to continuously evaluate at regular interval the existing system, adopt the latest techniques for plant operation & maintenance and update the knowledge of their technical and managerial staff at various levels. The present competitive market requires efforts not only for improved productivity at reduced cost but also to keep abreast with technologies in order to achieve sustainability.

This programme is envisaged to cater the needs of technical personnel keeping the above requirement in mind. A unique feature of the programme shall be presentations on the latest trends/developments by some leading experts of the field and also machinery manufacturers / suppliers. A close look on latest technologies, operation and maintenance techniques etc. is expected to give significant benefits to the plants on many accounts like reduction in energy consumption, reduction in emissions, inventory, material, maintenance cost and improvement in the environment. The acquired learning would help plant personnel gain leverage not only for the overall increase in the profitability but also increase the efficiencies in operation & life of the machineries 'of the plant, thus enriching corporate sustainability image.

KEY OBJECTIVES

- ✓ Appraisal of different strategic approaches for Sustainability
- ✓ Environmental management
- ✓ Decarbonisation in cement industry
- ✓ Emerging Technologies for Plant Management
- ✓ Energy efficiency improvement management
- ✓ Optimization of process and operational parameters
- ✓ Road map for sustainable and Cleaner Production

PROGRAMME CONTENTS

- ✓ Overview of cement industry – Present status & future outlook
- ✓ Best Practices for efficient plant operations
- ✓ Emerging Technologies for Sustainable and Cleaner Production
- ✓ Environmental aspects in sustainable production
- ✓ Maintenance Management including Hot Kiln Alignment Technique
- ✓ Decarbonisation of cement industry - Roadmap and its Potential
- ✓ Energy efficiency improvement including use of Renewable energy in cement industry
- ✓ Greening the cement industry by life cycle sustainability assessment
- ✓ Coprocessing of AFR - its use with CPCB norms
- ✓ Best available Cooler and Fan technology for cement plants
- ✓ Group discussion

VENUE : Lemon Tree Hotel

Sabarmati River Front

Ahmedabad-380 001 (Gujarat)

Phone : +91 - 7925505505, 9879112967

DATE
12th - 13th
APRIL
2023



Programme Fee

Programme Fee Per Participant : Indian - @ Rs. 12,000/- (Non-Residential) Plus GST @ 18%
Foreign - @ US \$ 300 (Non-Residential)

Note

The fee includes lunch and refreshments on all 2 days of Workshop & course material.

Discount

Rs1000/= discount for each subsequent participant for sponsoring 2 and more participants.

Payment

Cheque / Demand draft drawn in favour of New India Cement Engineering Consultant, Faridabad - 121006 (Haryana) to be sent to Mr S N M Khan, Director, 1661 / Sector - 7 E, Faridabad - 121006, Haryana.

Domestic bank transfer/RTGS/NEFT can be made to current bank account no. 915020019194517 of 'New India Cement Engineering Consultant', AXIS Bank, Plot No. 40, SCO, Sector 7, Ballabgarh, Faridabad – 121006, Haryana, IFSC Code No. UTIB0000039.

Overseas remitters may transfer funds to above account of 'New India Cement Engineering Consultant', SWIFT Code No. CHASUS33, JP Morgan Chase Bank.

PAN Number of New India Cement Engineering Consultant : AFKPK8133R and GST No.: 06AFKPK8133R1ZS

Clarification

For any further information/clarifications, please contact Mr. SNM Khan, Director-Consulting, Mob: 09958998059; E-mail : snmkhan@hotmail.com, info@niceconsultantsindia.com

Accommodation

For requirement of residential accommodation (on chargeable basis) at the venue in Ahmedabad, please contact directly to The Lemon Tree Hotel. Contact person : Ms Suvarna Burman, Sr. Sales Executive, Cell No : + 91- 09879112967

Facilitators

- | | |
|-----------------------------------|---------------------------------------|
| → Dr K Mohan | Former Director General, NCCBM |
| → Dr. Surjya Narayana Pati | Former Jt. Director, NCCBM |
| → Er. S N M Khan | Former Jt. Director, NCCBM |
| → Er. Pradeep Kumar | Former Jt. Director, NCCBM |

Each of the facilitators is having more than three and half decades of experience in Plant Operation, Technical Consultancy and R&D both in Indian and overseas cement industries.





NEW INDIA CEMENT ENGINEERING CONSULTANTS

New India Cement Engineering Consultants (NICE consultants), is providing consultancy services to the cement industries in all the areas from Geology & Mining to Packing. It is also providing technical expertise and organizing training programmes etc. for upgrading the knowledge and skills of cement industry professionals. It has 19 other experts on its panel who have very long experience in their areas of expertise viz. Geology & Mining, Process Engineering, Plant Maintenance, Project Engineering, Electrical Engineering, Environment, Financial Analysis etc. It also has tie up with other agencies having portable instruments and extensive experience for taking up process and electrical measurements at plant site. The areas of expertise of NICE consultants are :

PROJECT MANAGEMENT

- Prefeasibility Studies
- Techno-Economic Feasibility Report (TEFR) for Greenfield & Brownfield Projects
- Detailed Project Report (DPR)
- Project management – preparation of tender document and evaluation

PLANT MAINTENANCE

- Technical health audit consisting Mechanical, Electrical / Instrumentation, Environmental and Process / Quality aspects.
- Designing plant maintenance management system
- Safety audit of plant & machinery

PROCESS AND QUALITY

- Technological assessment of raw materials for cement manufacture
- Designing and optimization of raw mixes for improved production and kiln optimization
- Diagnostic and Process optimization studies for grinding and pyro-processing systems.
- Assessment of performance of high rating fans.
- Techno-economic viability for use of hazardous combustible wastes.

GEOLOGY & MINING

- Identification of suitable limestone deposits
- Computer aided deposit evaluation, mine planning and production scheduling
- Technical audit of open cast limestone mines
- Preparation of mining plan as per IBM guidelines for grant / renewal of mining lease.

ENVIRONMENTAL MANAGEMENT

- Carbon footprint
- Pollution load assessment
- Life cycle assessment
- Reduction measures of PM and Gaseous emissions
- Studies for performance evaluation of pollution control equipment (PCE)
- Environmental evaluation
- Studies in the area of Hazardous Waste Management
- Water Footprint

ENERGY MANAGEMENT

- Energy audit studies
- Identifying potential areas for energy saving both thermal and electrical
- Power system management
- Waste heat recovery for power generation
- Techno-Economic Feasibility Studies for energy efficiency projects / schemes
- Assistance in implementation of Energy Management System (ISO-50001) in cement plants.

TRAINING

- Tailor made short term training courses viz :

- Cement manufacturing technology
- Energy management : Energy Audit & Conservation.
- Environmental management
- Maintenance management

- Operation and maintenance of Kilns
- Technical health audit of cement plants
- Advances in grinding systems Operation, control and optimization of grinding systems
- Project management & financing
- Life cycle assessment (LCA)

- **Induction programme for fresh engineers**

(Specific need based training programmes including site based of short duration ranging from 1-3 days can be formulated keeping in view the requirements of sponsors)

It has successfully completed various projects related to "Performance audit of bag filters", "Plant Technical Health Audit Study". Training programmes held at different places on various topics like "Environmental Management" at New Delhi, "Sustainable development of cement plants" at Raipur, "Improvement opportunities through emerging technologies" Ahmadabad, "Innovative sustainable strategies for competitive marketing for cement & concrete" at Mumbai, "Cost Reduction Opportunities through Emerging Technologies in Cement Manufacturing" at Guwahati, "Global trends in cost reduction strategies for cement manufacturing" at Udaipur, "Innovative strategies for cost reduction in cement industries" at Hyderabad and Sustainable & Continual Improvement Strategies for Efficient Operation of Cement Plants at Satna. Recently, we have also conducted workshop cum training programme at two plant sites : one at J K Cement, Mangrol and second site in overseas Oman cement company, Muscat. In case of any query, please contact Mr SNM Khan, Director, NICE Consultants.

New India Cement Engineering Consultants (NICE CONSULTANTS)

1661, Sector 7E, Faridabad 121006, Haryana, India

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info@niceconsultantsindia.com • Website : www.niceconsultantsindia.com



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Workshop on

Emerging Technologies for Sustainable and Cleaner Production in Cement Plant

12th - 13th April 2023, **LEMON TREE HOTEL**, Ahmedabad

REGISTRATION FORM

Please register our Nominee(s) for the Training Programme

Name (Sponsoring Authority) : _____

Designation : _____

Organisation : _____

Address : _____

Telephone : _____

Fax : _____

E-mail : _____

Name (Participant-I) : _____

Designation : _____

Telephone : _____

Fax : _____

E-mail : _____

Name (Participant-II) : _____

Designation : _____

Telephone : _____

Fax : _____

E-mail : _____

Remittance of fee in advance is desirable.

Enclosed is a Draft / Cheque No. _____ for Rs. _____
in favour of '**New India Cement Engineering Consultant**', Faridabad- 121006 (Haryana)
being the nomination fee for the workshop.

(Please make more copies of this form for use in case of more than two participants)

Cheque/DD to be sent to the following address :

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Number of New India Cement Engineering Consultant : AFKPK8133R and GST No. :
06AFKPK8133R1ZS

Note : Details of requests for registration may also be communicated on email to
snmkhan@hotmail.com, info@niceconsultantsindia.com