

**CENTRE FOR CONTINUING EDUCATION SERVICES
NCB-BALLABGARH**

CCE-03/Cem /B/2019 (3)

Training Programme : Advanced Pyroprocessing Techniques for Improved Productivity and Clinker Quality.

Period : 22-24 May 2019
Venue : NCB-Ballabgarh

Summary of Feedback from the participants in the above Training Course :

1. The Training Programme, course content, faculty and Interaction with Participants is very good. Assuring NCB's support afterwards if required is appreciable.
 2. The Session on Raw mix mineralogy, Microscopy and XRD were very helpful for fine tuning of Raw Mix and clinker to optimise productivity and quality.
 3. Participants are so impressed upon the XRD & Mineralogy course that they are going to request their management for procuring the equipment for better performance.
 4. The session on XRD and Optical Microscopy dealt with the effective use of XRD and Optical Microscopy will improve the clinker quality.
 5. More ideas acquired on the optimized Raw Mixes and new alternative materials or fuels in cement plant..
 6. The course deals with enhancement and impact of TSR%, which created awareness about the process optimization in burner and calciner.
 7. Now there is a challenge for every plant to maximise TSR by using AFR. Solutions are given in the training course.
 8. The course is beneficial to meet the target (maximise the AFR with out any impact on clinker quality).
 9. Course content is very much essential for Pyro-processing in today's challenging situation, to reduce heat consumption and power consumption by implementing the tips given in the course.
 10. Regarding Refractory, failures and solutions were interacted in the session is good.
 11. After this training use of AFR in plant will increase to 6-8% from the present level of 3-4% with out compromising clinker quality.
 12. Total Quality Management Session was very interesting. Emphasis is given to maintain quality with productivity.
 13. Knowledge on TQM, Quality Circle, Quality Culture and Employee Involvement delivered by DG-NCB was highly appreciated.
 14. Participants appreciated highly regarding the course content and a fruitful training programme helping the cement industry in enhancing their performance.
1. Topics to be added (suggestions)
 - a. Raw Mix Design Calculations
 - b. Use of AFR Quality uniformly & effects and control of NOx and Sox./ Testing of AFR./ Impact of AFR.
 - c. CFD
 - d. Raw Mix and Kiln Operation
 - e. Specific electrical energy reduction and advanced instrumentation.
 - f. Kiln heat mass balance