



- Composition of cane and juice, principles of cane juice clarification with different types of liming and sulphitation process and tips to improve clarification efficiency.
- Role of Reducing sugar in sugar processing and various measures to reduce the final molasses purity.
- Pan Boiling: Theory of pan boiling, Tips to improve exhaustion in all grades massecuites
- Vertical and horizontal continuous pan and operational problems.
- Decanter and rotary vacuum filter
- Quality of sugar with reference to various test parameters , various types of sugars and liquid sugar.
- Intermediate boiling house products colour and their impact on final product
- Various measures to reduce the steam consumption in sugar mill
- Various measure to achieve best efficiency and sugar quality, during B Heavy diversion
- Molasses quality – Total reducing sugar and Un-fermentable sugar
- Water management in sugar mills & recent trends in water management in sugar processing- Type of technologies for sugar condensate polishing units, ETP & STP Operation

## Milling Plant

Department of Sugar Engineering, VSI conducted a one week duration tailor made short term training programme for Balarampur Chini Mills Ltd., groups Haidergarh Unit (UP) for engineering department heads, sectional heads and mill engineers of ten sugar mills on the 'Milling Plant' from 9<sup>th</sup> to 14<sup>th</sup> August 2021. Total 32 engineers participated in the training programme. Unit Head, Haidergarh unit, Corporate Technical Team Head (CTT Engineering) and HR officers, inaugurated the short-term training programme.

Mr. SP Nalawade Joint Technical Advisor and Mr. DN Shiotle conducted short-term training programme. In short term training different topics like cane handling, cane preparation, cane milling, mill gearing, hydraulic system, capacity and power calculations,

mill setting & trash plate profile. In addition to this, virtual training conducted on modern trends in juice extraction and power saving in milling plant by Mr. RA Chandgude-Technical Adviser & Head and Mr. PG Patil -Technical Adviser (Electrical).

The training programme also included practical calculations for sugar mill imbibitions, dilution ratio, juice drainage, mill capacity, power, mill setting and trash plate profile. The department heads of sugar units presented best practices adopted of their mills for repair and maintenance. They also, conducted the survey along with CTT Head along with participating engineers to Haidergarh plant and discussed on the mill performance, best practices in maintenance of milling plant.

## Environmental Clearance, Compliances, Violations and Uploading of EC on Parivesh Portal

The Ministry of Environment Forests & Climate Change has taken steps to improve the environmental compliance process and also to bring transparency in this regard. As a part of this, its required that all the industries upload the information of their existing

ECs online on Parivesh portal to help in the effective implementation of the EC condition. In order to help our member sugar mills in this aspect, the Department of Environmental Sciences organized an online workshop and demonstration under the auspices of

  
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# VASANTDADA SUGAR INSTITUTE

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## "Azaadi ka Amrut Mahotsav on 13<sup>th</sup> August 2021.

This workshop was a joint effort of Maharashtra Federation of Cooperative Sugar Factories, Sugar Commissionerate, Government of Maharashtra & VSI. The workshop was attended by 95 participants. Mr. Sambhaji Kadupati, OSD, VSI welcomed the participants in the beginning with an outline of the program. After this Mr. Shivajirao Deshmukh, Director General welcomed all participants and dignitaries. On the occasion of 'Azadi ka Amrut Mahotsav', he briefly covered evolution of sugar industry in India and particularly cooperative sugar sector in Maharashtra. Taking note of increase in the environmental issues in this industry, he urged the factory personnel to seriously look into it.

Mr. Sanjay Khatal (MD, Maharashtra Federation of Cooperative Sugar Factories) picked up the same thread from DG, VSI and emphasized that global warming and climate change have become a major challenge for all of us. He expressed that sugar industry is now viewed as a bio-energy complex. Hence, the programme like this, which addresses environmental issues are immensely important. Towards end of his speech, he requested all participants to shift from 'chaltahai' (taken for granted) attitude and become serious on environmental issues.

Mr. Shekhar Gaikwad, Sugar Commissioner, in his speech, also emphasized on the pollution issue. In

addition, he explained the role of sugar industry in Ethanol Blended Petrol (EBP) programme and economy of the state. He concluded his speech by giving best wishes to participants and organizers.

Mr. Prakash Naikavare (MD, National Federation of Cooperative Sugar Factories) joined the session as a participant. He expressed his eagerness to understand the present issue. This was followed by a presentation on 'Environmental Clearance Compliances and Violations' by Dr Deepali Nimbalkar where she explained the difference and the various notifications pertaining to the issue. She also talked about the special provisions for environmental clearance available for ethanol projects and the applicability of NIPL & B2 category. She stressed on the seriousness of complying with the EC conditions and the fines for various violations.

After the presentation, Dr. Vivek Patil and Mr. Kapil Uphade gave an online demonstration of registration of project on Parivesh portal of MoEFCC and uploading of the EC documents in the same. The EC documents of Vilas SSK were uploaded as a part of this demonstration.

There was active participation from the audience. They raised number of queries, followed by the demonstration. These queries were satisfactorily answered by staff of Dept of Environmental Sciences, as well as DG, VSI. The programme ended with vote of thanks proposed by Dr. Amol Deshmane.



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