

**VASANTDADA SUGAR INSTITUTE**  
**MANJARI BK, TALUKA HAVELI, DISTRICT PUNE-412 307**

<https://www.vsisugar.com>



## **Criterion 7 - Institutional Values and Best Practices**

### **7.1 Institutional values and Social Responsibilities**

**Report of the activities and Proofs**

**2021-22**



## VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

18/02/2022

**Activity Name:** Overview of Distilleries and Alcoholic Beverage Industry

**Activity scope:** The overview the different aspects of distillery and alcoholic beverage industry

**Activity details:**

Mr. Prasad Survey, Deputy Divisional Commissioner, Pune, State Excise, Government of Maharashtra State requested VSI to arrange half day training programme on 'Overview of distilleries and alcoholic beverage industry' for their 113 trainee officers. In this regard Department of Alcohol Technology & Biofuels (AT & B), VSI conducted half day training programme on 18<sup>th</sup> February 2022 for the trainee State Excise Officers, Government of Maharashtra. Mr. SR Jadhav, Deputy Superintendent, Hadapsar, Pune, Mr. Yuvraj Shinde, Deputy Superintendent, Pimpri Chinchwad and other few officers of training center Khandala were also present for the training programme. In the training Mr. DA Patil, Assistant Professor & Joint Technical Adviser, AT & B. elaborated the importance of the course to the participants. The first lecture was delivered by Mr. RV Godage, Assistant Professor & Joint Technical Adviser, AT & B. He has briefly presented his presentation on the topics such as Molasses quality, Storage of molasses, Batch fermentation, Continuous Overview of Distilleries and Alcoholic Beverage Industry fermentation, Atmospheric and Multipressure distillation, Characteristics of rectified spirit, Extra neutral alcohol, Fuel ethanol, Azeotropic distillation, Molecular sieve dehydration and DFPD Guidelines, Mr. DA Patil has presented his presentation on topics such as Role of Excise in distillery unit, Alcoholic fermentation process, Factors affecting on distillery performance, Atmospheric distillation process, Production process of country liquor, Indian made foreign liquor (Whisky, Brandy, Rum, Gin & Vodka), records and registers to be maintained in CL & IMFL, taxes and duties on molasses and alcohol . Dr. KS Konde, Associate Professor & Technical Adviser, AT & B, thanked to the Commissioner, State Excise, GoM and their Officers for sending their trainee officers for training. He has also taken the review of the lectures. In the concluding session of the training programme, Mr. Prasad Survey thanked to the management of VSI and concern staff of AT & B for giving valuable information about training to the trainee officers.



**Principal**  
**Vasantdada Sugar Institute**  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra



## VASANTDADA SUGAR INSTITUTE

VSI Bulletin : Vol. - 22, Issue - 1, January - March 2022

### Overview of Distilleries and Alcoholic Beverage Industry

Mr. Prasad Survey, Deputy Divisional Commissioner, Pune, State Excise, Government of Maharashtra State requested VSI to arrange half day training programme on 'Overview of distilleries and alcoholic beverage industry' for their 113 trainee officers. In this regard Department of Alcohol Technology & Biofuels (AT & B), VSI conducted half day training programme on 18<sup>th</sup> February 2022 for the trainee State Excise Officers, Government of Maharashtra. Mr. SR Jadhav, Deputy Superintendent, Hadapsar, Pune, Mr. Yuvraj Shinde, Deputy Superintendent, Pimpri Chinchwad and other few officers of training center Khandala were also present for the training programme.

In the training Mr. DA Patil, Assistant Professor & Joint Technical Adviser, AT & B, elaborated the importance of the course to the participants.

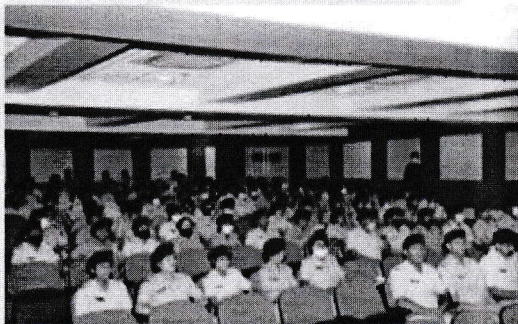
The first lecture was delivered by Mr. RV Godage, Assistant Professor & Joint Technical Adviser, AT & B. He has briefly presented his presentation on the topics such as Molasses quality, Storage of molasses, Batch fermentation, Continuous

fermentation, Atmospheric and Multipressure distillation, Characteristics of rectified spirit, Extra neutral alcohol, Fuel ethanol, Azeotropic distillation, Molecular sieve dehydration and DFPD Guidelines,

Mr. DA Patil has presented his presentation on topics such as Role of Excise in distillery unit, Alcoholic fermentation process, Factors affecting on distillery performance, Atmospheric distillation process, Production process of country liquor, Indian made foreign liquor (Whisky, Brandy, Rum, Gin & Vodka), records and registers to be maintained in CL & IMFL, taxes and duties on molasses and alcohol.

Dr. KS Konde, Associate Professor & Technical Adviser, AT & B, thanked to the Commissioner, State Excise, GoM and their Officers for sending their trainee officers for training. He has also taken the review of the lectures.

In the concluding session of the training programme, Mr. Prasad Survey thanked to the management of VSI and concern staff of AT & B for giving valuable information about training to the trainee officers.



### Oos Sheti Dnyanyag & Dnyanlaxmi

In the memory of founder president of VSI late Padmabhushan Dr. Vasantdada Patil, **Oos Sheti Dnyanyag & Dnyanlaxmi** - residential training programmes were organized for sugarcane growers

of Maharashtra at VSI in two batches during December 21 - 24 & 28 - 31, 2021 reported in previous issue of VSI Bulletin and remaining batches were conducted during January to March 2022 is reported in the present issue of VSI Bulletin. Details as given below;

Principal

Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,



## VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

13/08/2021

**Activity Name:** Environmental Clearance, Compliances, Violations and Uploading of EC on Parivesh Portal

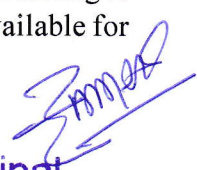
**Activity scope:** The make aware about Environmental Clearance, Compliances, Violations and Uploading of EC on Parivesh Portal

**Activity details:**

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 Environmental Clearance, Compliances, Violations and Uploading of EC on Parivesh Portal 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 "Aazaadi ka Amrut Mahotsav on 13th 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 Kadupatil, 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 Naiknavare (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.



  
Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra



- 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 Shitole 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).

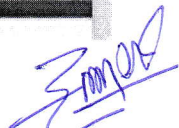
The training programme also included practical calculations for sugar mill imbibitions, dilution ratio, juice drainage, mill capacity, power, mill setting and trash plate profile. The department heads of sugar units presented best practices adopted of their mills for repair and maintenance. They also, 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



  
Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra



### "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 Kadupatil, OSD, VSI welcomed the participants in the beginning with an outline of the program. After this Mr. Shrivajirao 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.

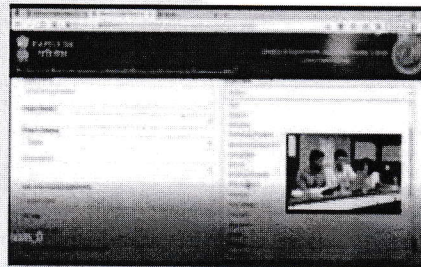
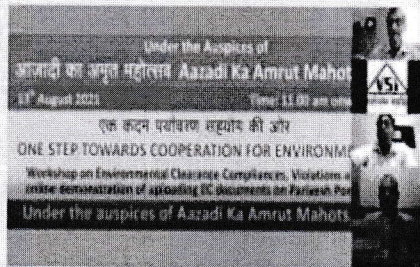
Mr. Shekhar Gaikwad, Sugar Commissioner, in his speech, also emphasized on the pollution issue. In

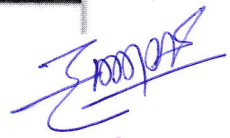
addition, he explained the role of sugar industry in Ethanol Blended Petrol (EBP) programme and economy of the state. He concluded his speech by giving best wishes to participants and organizers.

Mr. Prakash Naiknavare (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.



  
Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

02/10/2021

**Activity Name:** National Seed Day

**Activity scope:** To aware the students and farmers regarding the seed multiplication, its germination, and its impact on the society

**Activity details:** Vasantdada Sugar Institute (VSI) organized Seventh National Seed Day on October 1, 2021 under the ICAR seed project. On this occasion a one-day training programme was organized for the student of VSI on 'Sugarcane seed multiplication & production technology'.

**Speaker details:** Mr. Sambhaji Kadupatil mentioned the importance of seed replacement in sugarcane.

**Participants:** Total number of participants was 86 (from outside)



Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307





# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

**VASANTDADA SUGAR INSTITUTE**  
VSI Bulletin, Vol.- 21, Issue- 4, (December 2021)

**EVENTS**  
**EVENTS**

**National Seed Day**

Vasantdada Sugar Institute (VSI) had organized Seventh National Seed Day on October 1, 2021 under the ICAR seed project. On this occasion a one day training programme was organized on 'Sugarcane seed multiplication & production technology' for Agriculture Assistants of sugar mills and seed nursery farmers.


This event was inaugurated by Mr. Sambhaji Kadupatil, Officer on Special Duty, in presence of sectional Heads of Agriculture Science and Technology Division. Mr. Kadupatil, in his inaugural speech, mentioned the importance of seed replacement in sugarcane. Sugarcane growers are using the same seed material year after year hence productivity is also declining. It is most important to replace sugarcane seed once in three-four years. Most of the mills are unaware of the importance of the seed replacement programme. Genetically and physically pure seed gives optimum germination due to which per unit yield increased by 10 to 15%. In view of this, Institute raising breeder's seed every year on 40 ha area for distribution to mills. During the program various lectures were given by

Sr. Scientist, Plant Breeding Section, 'Sugarcane cane seed multiplication, production technology' by Mr. SS Katake, Scientist and Farm Manager, 'Sugarcane seed Production through Tissue Culture' by Dr. SG Dalvi, Scientist, Tissue Culture, 'Seed borne diseases and control measures' by Mr. BH Pawar, Sr. Scientist, Plant Pathology on and 'Integrated pest management' by Mr. RG Yadav, Scientist and Head Entomology section.

Mr. Shivajirao Deshmukh, Director General, VSI had discussed problems in the seed production in the concluding session and he mentioned that the seed replacement rate should be increased by more than 20%. Presently it is very less i.e. 6.0%. On this occasion message was given to participants to adopt improved seed production technologies and to replace old seed materials once in a three years.

For this National Seed day program total 86 trainees of 27 sugar mills have participated. The program was concluded with a vote of thanks by Mr. RN Gaikwad, Scientific Officer, Farm Management and Development section.



  
Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307