

**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**

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**2022-23**



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

10/01/2022

**Activity Name:** Traditional vs Scientific Technologies for Mahua Spirit and Heritage Alcoholic Beverages Production-Optimization, Evaluation and Training (Heritage Wine Policy)


**Activity scope:** To educate the tribal people & VSI students on scientific process of mahua liquor production & its optimization.

**Activity details:** A training programme was conducted from January 10-28, 2022 under the research project entitled 'Traditional vs scientific technologies for Mahua spirit and heritage alcoholic beverages production-optimization, evaluation and training (heritage wine policy)' was carried out by Department of Alcohol Technology and Biofuels (AT& B), VSI. This project is sanctioned by Principal Secretary, Department of Commercial Tax, Govt. of Madhya Pradesh and funded by Ministry of Tribal Affairs, Govt. of India.

**Speaker details:** Prof. SV Patil, Technical Adviser & Head, Department of AT & B briefly explained to the participants regarding all departmental activities with special reference to the Mahua project such as alcoholic & non-alcoholic beverages, Mahua tree & its importance, traditional vs scientific fermentations & distillation, analysis of total reducing sugar, ethanol & total organic volatile acidity, concept of sensory evaluation, isolation & maintenance of yeast culture, understanding pilot & effluent treatment plant, ideal packaging methods and rules & regulations linked to the Excise Department.

**Participants:** Total number of participants was 13 (from outside)



  
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VASANTDADA SUGAR INSTITUTE

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

## TRAINING

### Traditional vs Scientific Technologies for Mahua Spirit and Heritage Alcoholic Beverages Production-Optimization, Evaluation and Training (Heritage Wine Policy)

A training programme for tribal representatives was conducted from January 10-28, 2022 under the research project entitled 'Traditional vs scientific technologies for Mahua spirit and heritage alcoholic beverages production-optimization, evaluation and training (heritage wine policy)' was carried out by Department of Alcohol Technology and Biofuels (AT&B), VSI. This project is sanctioned by Principal Secretary, Department of Commercial Tax, Govt. of Madhya Pradesh and funded by Ministry of Tribal Affairs, Govt. of India.

Total 13 participants and Mr. Anirudh Mockerjee, project consultant attended the training programme. The participants were from Dindori and Alirajpur Dist. of Madhya Pradesh (MP) and most of the participants were tribal people. Participants were from various backgrounds such as farmer, Excise Officer and science students. Mr. Rajesh Henry, Additional Excise Commissioner, GoMP attended the training programme for one day. As instructed by GoMP, the training programme was conducted in Hindi.


Prof. SV Patil, Technical Adviser & Head, Department of AT & B briefly explained to the participants regarding all departmental activities with special reference to the Mahua project.

The training programme covered different topics such as alcoholic & non-alcoholic beverages, Mahua tree & its importance, traditional vs scientific fermentations & distillation, analysis of total reducing sugar, ethano& total organic volatile acidity, concept of sensory evaluation, isolation & maintenance of yeast culture, understanding pilot & effluent treatment plant, ideal packaging methods and rules & regulations linked to the Excise Department. The course also included hands-on practical based on the above topics which will be helpful for the participants while working at pilot demo plant at MP. During the training period, there was a one-day visit to

BrimaSagar Maharashtra Distilleries Ltd, Shreepur, Solapur, Maharashtra in which participants were acquainted about the Industrial pot distillation and foreign liquor.

On the occasion of the concluding session on January 28, 2022, the training certificates were given to the participants by Mr. Shivajirao Deshmukh, DG, VSI. He also briefed importance of this project about Mahua liquor. All the participants introduce their self and gave their positive feedback. During the session, discussion was also held and session was concluded with vote of thanks by Dr. S. Behera, Scientist, VSI.



  
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# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

31/03/2022


**Activity Name:** Valorizing Waste from Sugar & Allied Industries

**Activity scope:**

**Activity details:** One-day workshop entitled 'Valorizing waste from sugar & allied industries' was jointly organized by the Department of Alcohol Technology and Biofuels, VSI and UK partners at Vasantdada Sugar Institute (VSI), Manjari (BK), Pune, India on March 31, 2022. Participants were aquanted about the Sugar and Allied Industries has huge opportunities for utilization of sugarcane bagasse (SCB) and press mud cake (PMC) for value added products such as bio-CNG, lactic acid, bio-butanol, succinic acid, xylitol, etc. There was lot of deliberation made on use of vWa technologies for production of value added products (bio-CNG, bio-butanol, lactic acid, succinic acid, xylitol) and their adoption in sugar and allied industries.

**Participants:** 133 participant including faculty member and students



  
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## VASANTDADA SUGAR INSTITUTE

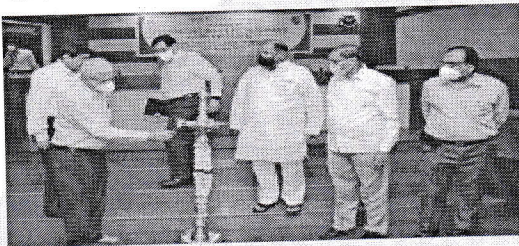
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1. The planting of drought tolerant varieties like CoC 671, VSI 434 and VSI 08005 should be undertaken in the drought prone area of Maharashtra.
2. The early planting (Pre-season planting) should be preferred (October-November) in the drought prone area.
3. Distance between two rows can be reduced upto 90 cm in the drought prone area.
4. Incorporation of sugarcane trash in soil instead of burning OR in situ decomposition with trash mulching to increase the fertility of soil, it has a major role in soil conservation, checks the weed growth, helps to minimize the impact of water stress as well as salt stress on crop.
5. The application of *Acetobacter diazotrophicus* bioinoculant @ 3 lit/ha in 500 lit of water as foliar application after 60 days of planting in morning hours.
6. To control sugarcane mealy bug or scale insects infestation in stress condition by removal of lower 2-3 dry leaves and spraying of Imidachloprid 17.8 % SL @ 300 ml/ha (0.3 ml/lit) is recommended.
7. For the management of Early shoot borer and Internode borer in stress affected sugarcane crop, the release egg parasitoid *Trichogramma chilonis* @ 3-5 lac parasitized eggs /ha in suitable instalments in the field and soil application of granular insecticide Fipronil 0.3 GR @ 25 kg/ha or Chlorantraniliprole 0.4 GR @ 22.5 kg/ha or Spraying of Chlorantraniliprole 18.5% SC @ 375 ml per ha (0.4 ml/ lit of water) is recommended.
8. Under abiotic stress condition the incidence of sugarcane diseases viz, pokkah boeng, rust, red rot, wilt, pineapple and whip smut is increasing as well as abnormalities viz., leaf scorching, drying of leaves, rotting of leaves, decaying of leaves, defoliation and banded chlorosis are also observed. To control these diseases and abnormalities the recommended prophylactic measures should be adopted for the management of sugarcane diseases and abnormalities under stress condition.

### Valorizing Waste from Sugar & Allied Industries

One-day workshop entitled 'Valorizing waste from sugar & allied industries' was jointly organized by the Department of Alcohol Technology and Biofuels, VSI and UK partners at Vasantdada Sugar Institute (VSI), Manjari (BK), Pune, India on March 31, 2022 with the active participation of sugar mills and distilleries from different States across the Country.

For this workshop following eminent Delegates & Speakers viz, Mr. Jayprakash Dandegaonkar, Chairman, NFCSFL & MRSSK Sangh Ltd., In Mr. Prakash Naiknaware, MD, NFCSFL, India; Mr. Sanjay Khatal, MD, MRSSK Sangh Ltd., India; Prof. V. V. Ranade, Professor Emeritus, Queen's University Belfast, UK; Prof. SV Patil, Professor Emeritus, Alcohol Tech &



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## VASANTDADA SUGAR INSTITUTE

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Biofuels, VSI, India; Prof. Yogendra Shastri, Department of Chemical Engineering, IIT Bombay, India; Mr. Joseph Vimal, MD, J & F Biogas, Chennai, India; Mr. Gajendra Singh, Dhampur Sugar Mills Ltd., UP, India (Online); Dr. Vinod Kumar, Cranfield University, Cranfield, UK (Online); Dr. Ines Baptista, Green Fuels Research Ltd., Berkeley, UK (Online); Mr. Shivajirao Deshmukh, Director General, VSI, India; Mr. Sambhaji Kadupatil OSD, VSI, India and apart from this, total 133 participant (Sugar Mills: 79 and VSI; 54) were present and

The workshop was inaugurated and welcome address was given by Mr. Shivajirao Deshmukh. He welcomed all the guests, sugar mill representatives and VSI staff. He told that Sugar and Allied Industries has huge opportunities for utilization of sugarcane bagasse (SCB) and press mud cake (PMC) for value added products such as bio-CNG, lactic acid, bio-butanol, succinic acid, xylitol, etc. He informed that VSI has collaborated with NiraBhima SSKL for installation of two pilot scale anaerobic digesters to study various aspects and retrofit Compressed biogas (CBG) facility in existing sugar mill complex.

Introductory remarks were given by Mr. Jayprakash Dandegaonkar. He informed that India is importing 77% crude oil requirements and 50% of natural gas requirement and Government of India has set a target of reducing this import by at least 10% by 2022. He also told that India has set a target of 10% blending of fuel ethanol with petrol by 2022 and 20% blending by 2025 for ethanol blending programme. He also informed that GOI has invited expression of Interest by Oil Marketing Companies (OMCs) for production & supply of CBG under Sustainable Alternative towards Affordable Transportation (SATAT) programme. He further informed that Indian Sugar Mills generates 8-10 million tons of PMC and 100 million tons of SCB every year. He told that both PMC & SCB can be utilized for CBG production through anaerobic digestion (AD). SCB can be used to produce value added products such as bio-ethanol, bio-butanol, lactic acid, succinic acid and xylitol, etc. He emphasized that if 50 % of Sugar mills out of total 540 Sugar mills will adopt CBG technology, they will produce 3.75 lakh ton of CBG per annum with revenue of Rs. 1750 crore per annum to India and this will

create employment opportunities. He also explained the market potential of lactic acid and succinic acid.

### Technical Session-I

During the 1<sup>st</sup> technical section, Prof. VV Ranade gave a presentation on 'Valorising waste biomass via hydrodynamic cavitation and anaerobic digestion'. He briefly discussed the visions of vWa project. He told that the PMC & SCB produced from sugar & allied industries could be converted in to bio-CNG & other value added products. He specially focused on hydrodynamic cavitation pretreatment method using vortex based devices for cavitation. He also also discussed biogas improvement for spent wash digester on commercial scale using cavitation pretreatment.

The 2<sup>nd</sup> technical presentation was delivered by Prof. SV Patil on the topic entitled 'Value added products from waste biomass'. Prof. SV Patil started his presentation with the explanation of vWa project concept and the role of VSI in the project. In his talk, Prof. Patil emphasized mainly on bio-CBG and lactic acid production. He also explained about the achievement of biogas production of 480 M<sup>3</sup> per ton of dry PMC or 120 M<sup>3</sup> per ton of wet PMC. He also explained about the 45% enhancement of biogas production rate in case of PMC feed when the retention time was changed from 30 days to 20 days. On aspect of CBG production, Prof. Patil described 5 different types of CBG production models on Sugar industry perspective.

The third technical presentation was delivered by Prof. Yogendra Shastri on the topic entitled 'Technologies for Sugar Industry Waste Valorization: Development and Scale-up Potential'. He explained life cycle analysis for different products (lactic acid, succinic acid, xylitol & CBG) in vWa. He mentioned regarding the techno-economic & life cycle assessment of different value added products (Rs. 215/kg lactic acid, Rs. 37/kg of CBG, Rs. 121/kg for succinic acid & Rs. 230/kg for xylitol). He also explained biomethane and lactic acid purification work at IIT Bombay.



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### Technical Session II

During the 2<sup>nd</sup> technical session, Mr. Gajendra Singh, Dhampur Sugar Mills Ltd., UP, India gave a presentation on 'Biomethane production: An opportunity'. He explained the single stage anaerobic digestion with cavitation and two stage anaerobic digestion. He explained anaerobic digestion data for 1M<sup>3</sup> and 7M<sup>3</sup> digester. He also shown flame test for 7M<sup>3</sup> digester. He also explained production of volatile fatty acids (acetic, propionic and butyric acids) during biogas production for two stage anaerobic digestion.

The 2<sup>nd</sup> technical presentation was delivered by Dr. Vinod Kumar on the topic entitled 'Sugarcane bagasse-based Production of Biochemicals'. He focused on production of xylitol and succinic acid from SCB. He informed that 102.5 g/L of xylitol was produced through fed-batch fermentation from pure xylose in comparison to 86.6 g/L of xylitol from SCB xylose hydrolysate. He further informed that 36.7 g/L of succinic acid was produced from pure xylose in comparison to 28.7 g/L of succinic acid from SCB xylose hydrolysate.

The 3<sup>rd</sup> technical presentation was delivered by Dr. Ines Baptista on 'Towards biobutanol production: ABE fermentation of sugarcane bagasse hydrolysate'.

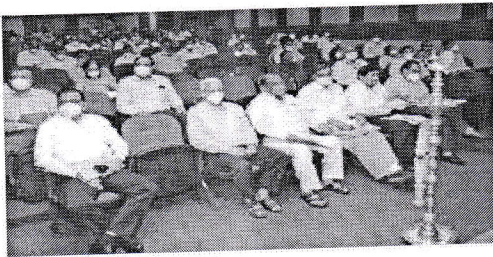
She emphasized on biobutanol production from synthetic media and SCB hydrolysate containing both glucose and xylose.

The 4<sup>th</sup> technical presentation was delivered by Mr. Joseph Vimalon on 'CSTR Semi dry fermentation technology'. He described in detail about pros and cons of semi-dry fermentation technology in the field of bio-digestion for various different substrates (paddy straw, press mud, cane trash, Napier grass).

The technical session I & II was coordinated by Dr. Kakasaheb Konde, Head, Professor and Technical Adviser, AT & B, VSI, India.

In the panel discussions, Mr. Shivajirao Deshmukh, Mr. Sambhaji Kadupatil, Mr. Prakash Naiknavare, Prof. Yogendra Shashtri, Mr. SD Bokhare, Prof. Vivek Ranade, Prof. SV Patil and Dr. KS Konde were present on the dias. There was lot of deliberation made on use of vWa technologies for production of value added products (bio-CNG, bio-butanol, lactic acid, succinic acid, xylitol) and their adoption in sugar and allied industries. The participants of the workshop raised many questions and doubts about the use of feed stocks released from sugar & allied industries and necessary explanation were provided by the delegates.

The programme was concluded with vote of thanks given by Mr. Sambhaji Kadupatil.



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# VASANTDADA SUGAR INSTITUTE

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11/05/2022

**Activity Name:** National Technology Day

**Activity scope:** To commemorate the role of Science and Technology in developing a modern India & aware students and faculties regarding dissemination of different available technologies in the society

**Activity details:** The student, staff and faculty members of VSI have celebrate the National Technology Day on 11<sup>th</sup> May to commemorate the role of Science and Technology in developing a modern India. The day was celebrated by organizing lecture of eminent Scientist/Technologist.

**Speaker details:** Prof. SW Gosavi, Head, Departments of Physics & Environmental Sciences, Savitribai Phule Pune University, Pune on topic entitled "Use of Nanotechnology for Sustainable Development"

**Participants:** Total number of participants was 85 (from outside)



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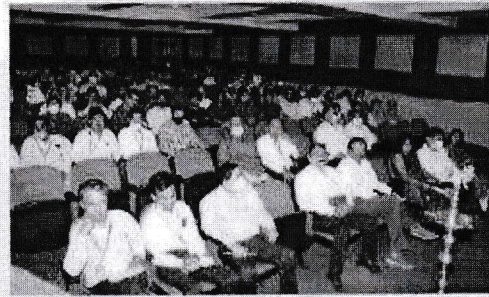
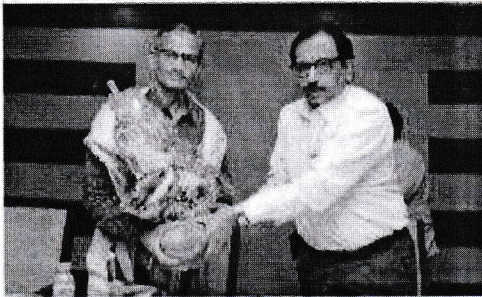
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## National Technology day

National Technology day is held annually on May 11 to honor the contributions of India's scientific community including scientists, researchers and engineers. The theme for this year was "Integrated approach in science and technology for a sustainable future". Dr. Sanjay Patil, Resources Scientist & Head, Maharashtra Remote Sensing Application Centre (MRSAC), Pune was invited as a chief guest for the technology day celebration at VSI on May 11, 2022. All staff members and students of VSI were present on the occasion. The program was coordinated by Dr. JM Repale. The function began with lighting of the lamp by the chief guest and the OSD, Mr. Sambhaji Kadupatil who also welcomed the guest with flowers. Dr. Deepali Nimbalkar briefed the audience about the significance of technology day and introduced the guest. After this, Dr. Sanjay Patil

delivered a lecture on 'Application of geoinformatics technology in agriculture'. He explained basics of remote sensing like remote sensing process, types of remote sensing, kinds of satellite, visual and digital image interpretation. He also explained remote sensing application in crop inventory, acreage estimation, cropping system analysis, production estimation, crop monitoring and condition assessment. He also explained use of hyper spectral sensors for identification of stress detection, varietal discrimination and disease identification. He briefed the work done in MRASC in the entire sector. The interactive session after the lecture was very interesting with lot of questions on varied applications of remote sensing, activities of MRSAC etc. from staff as well as students. The program concluded with a vote of thanks by Dr. Vivek Patil.



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# VASANTDADA SUGAR INSTITUTE

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14/09/2022


**Activity Name:** Cheetah is Back

**Activity scope:** The make aware about shrinking number as well as depleting habitat of Cheetah

**Activity details:**

Ministry of Environment, Forest and Climate Change's regional office, Nagpur coordinated with Department of Environmental Sciences to organize an awareness lecture on the theme 'Cheetah is back'. This lecture was organized on September 14, 2022 at seminar hall of the Institute. In this awareness presentation, shrinking number as well as depleting habitat of Cheetah was presented to audience. In addition, morphologically distinguishing characteristics of Cheetah, leopard and jaguar were explained with photographs. Efforts of Government of India to restore the Cheetah were highlighted in few slides of the presentation. Students of environmental sciences and few faculty members attended the programme. Dr. Amol Deshmane (Scientist, Dept of Environmental Sciences) delivered the presentation. Dr. Deepali Nimbalkar (Sr. Scientist and Head, Dept. of Environmental Sciences) and Mr. DB Ghule, Principal actively supported for organizing the programme.



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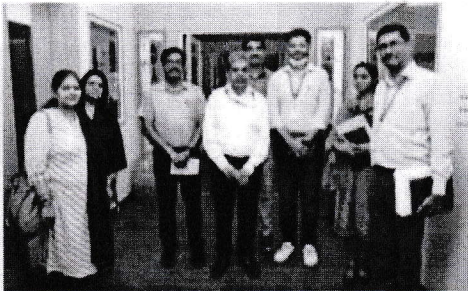
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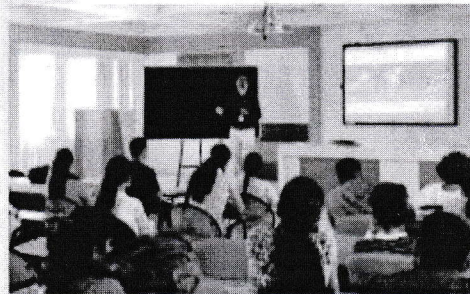
VSI Bulletin : Vol. - 22, Issue - 3, July - September 2022



### Cheetah is Back

Ministry of Environment, Forest and Climate Change's regional office, Nagpur coordinated with Department of Environmental Sciences to organize an awareness lecture on the theme 'Cheetah is back'. This lecture was organized on **September 14, 2022** at seminar hall of the Institute. In this awareness presentation, shrinking number as well as depleting habitat of Cheetah was presented to audience. In addition, morphologically distinguishing characteristics of Cheetah, leopard and jaguar were explained with

photographs. Efforts of Government of India to restore the Cheetah were highlighted in few slides of the presentation. Students of environmental sciences and few faculty members attended the programme. Dr. Amol Deshmane (Scientist, Dept of Environmental Sciences) delivered the presentation. Dr. Deepali Nimbalkar (Sr. Scientist and Head, Dept. of Environmental Sciences) and Mr. DB Ghule (Registrar) actively supported for organizing the programme.



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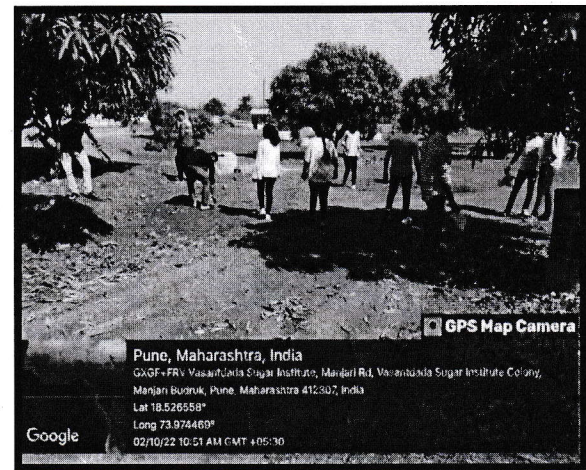
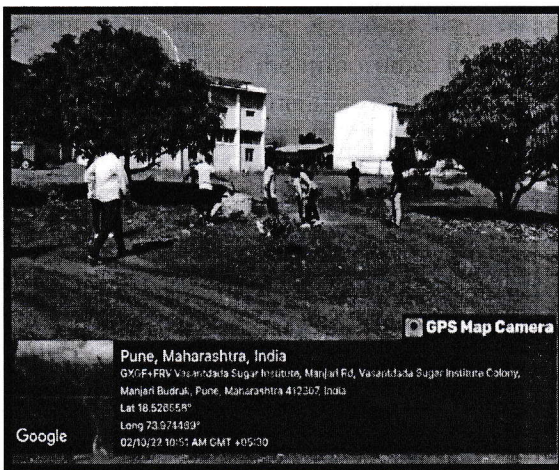
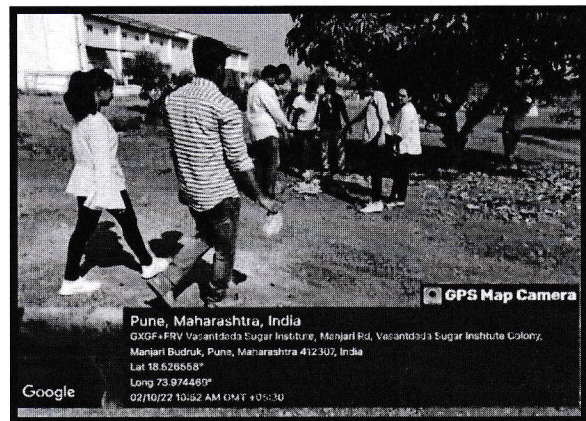
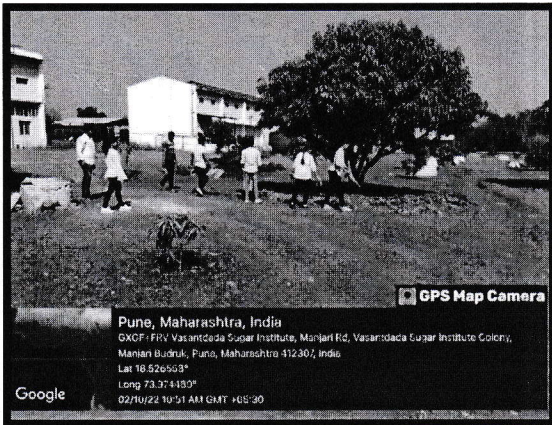
02/10/2022


**Activity Name:** Cleanliness drive

**Activity scope:** The make aware about importance of cleanliness

**Activity details:**

Institute have organized cleanliness drive under “Swachh Bharat Mission” during 02 Oct 2022. The institute aims in creating awareness among the students regarding garbage segregation. Student learns about the importance hygienic condition for the self-development and the societal development. Students have actively participated in this drive.



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# VASANTDADA SUGAR INSTITUTE

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13/03/2019

**Activity Name:** Field visit to Eco-restoration site Developed by Ecological Society at Panshet, Pune

**Activity scope:** To aware students for observing eco-restoration site

**Activity details:**

One-day field visit organized for M.Sc. (Environmental Sciences) students by Department of Environmental Sciences for eco-restoration on 12<sup>th</sup> March 2019. Students were taken to the site at Panshet in Pune district which was ecologically restored by Ecological Society. Mrs. Swati Gole one of the founder members of Ecological Society, Pune accompanied the group as a 'resource person'. On the way to Panshet, students observed changes in habitat and land use. They raised several queries related to observations and queries were answered by Dr. Deshmane Mrs. Swati Gole explained the history of the site then shifted to the principles of restoration and correlated the processes. She elaborated on the changes observed at restoration site in last three decades, the limitation observed in the process and her unbiased assessment of the entire restoration exercise. She also shared a grassland restoration experience that was carried out near Phaltan in Satara district of Maharashtra. The entire discussion session was useful to students as it offered a different perception, enhance their ability to think and visualize about importance of nature in daily life. After discussion, students visited the restoration site and noted their observations. Followed by, students visited a sacred grove at village Ambegaon Khurd. In the interactive session, students raised queries which were answered by Mrs. Gole and Dr. Deshmane.



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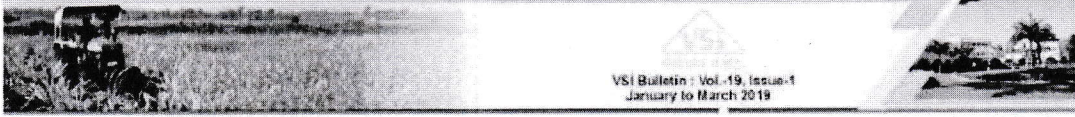
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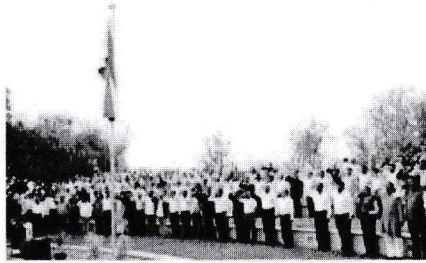
# VASANTDADA SUGAR INSTITUTE

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## EVENTS

### The 70<sup>th</sup> Republic Day of India



The 70<sup>th</sup> Republic Day of India was celebrated on 26<sup>th</sup> January 2019. On this occasion the Director General, Mr. Shivajirao Deshmukh hoisted the National flag in the Institute in presence of staff members.



### Field visit to Eco-restoration site Developed by Ecological Society at Panshet, Pune

One-day field visit organized for M.Sc. (Environmental Sciences) students by Department of Environmental Sciences for eco-restoration on 12<sup>th</sup> March 2019. Students were taken to the site at Panshet in Pune district which was ecologically restored by Ecological Society. Mrs. Swati Gole one of the founder members of Ecological Society, Pune accompanied the group as a 'resource person'. On the way to Panshet, students observed changes in habitat and land use. They raised several queries related to observations and queries were answered by Dr. Deshmane. Mrs. Swati Gole explained the history of the site then shifted to the principles of restoration and correlated the processes. She

elaborated on the changes observed at restoration site in last three decades, the limitation observed in the process and her unbiased assessment of the entire restoration exercise. She also shared a grassland restoration experience that was carried out near Phaltan in Satara district of Maharashtra. The entire discussion session was useful to students as it offered a different perception, enhance their ability to think and visualize about importance of nature in daily life. After discussion, students visited the restoration site and noted their observations. Followed by, students visited a sacred grove at village Ambegaon Khurd. In the interactive session, students raised queries which were answered by Mrs. Gole and Dr. Deshmane.



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

18/03/2019

**Activity Name:**

29<sup>th</sup> Institutional Bio-Safety Committee (IBSC)

**Activity scope:**

To discuss about issues related to bio-safety

**Activity details:**

The 29<sup>th</sup> meeting of Institutional Bio-Safety Committee (IBSC) of VSI meeting was held on 18th March, 2019 under the chairmanship of Mr. Shivajirao Deshmukh, DG, VSI in presence of Dr. P. Suprasanna, Head, FPBS, NABTD, BARC, Mumbai and DBT nominee., Dr. SK Raut, Consultant Doctor & Member, Shri. Vikas Deshmukh, Director, AST, VSI,

Dr. K. Harinath Babu, Senior Scientist, VSI – Member Secretary, Dr. RM Devarumath, Scientist & Member and Dr. SG Dalvi, Scientific Officer, VSI & member participated in the meeting. They discussed about various issues related to Bio-Safety, work progress and developing collaborations within and outside India for developing drought tolerant sugarcane.



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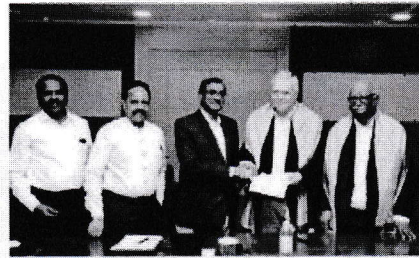
## Memorandum of Understanding (MOU) between VSI & SESVANDERHAVE

As directed by Hon President VSI, Mr. Sharadchandra Pawar, MOU was signed between SESVANDERHAVE, Belgium (Europe) and VASANTDADA SUGAR INSTITUTE Pune (India) on 20<sup>th</sup> February, 2019 for sugarbeet crop research and allied training. SESVANDERHAVE is a Belgian company specialized in the breeding and commercialization of high quality sugarbeet seed.

Mr. Shivajirao Deshmukh, Director General, Mr. Vikas Deshmukh, Director, Agricultural Sciences & Technology Department, VSI and Mr. Jean Noel Evrard, Head of Marketing & Communication, Mr. Mohan Bajikar Indian Representative, SESVANDERHAVE

company signed the MOU and agreed to work together for the period of next five years. Mr. PV Ghodke Scientist & Head Agronomy also present during this agreement.

In this MOU both SESVANDERHAVE and VSI will jointly cultivate sugarbeet in India. SESVANDERHAVE will share knowledge on the development, train staff and sugarbeet farmers of selected sugar factories. VSI will evaluate / test new genetic seed material received from SESVANDERHAVE to identify the best suitable genetic seed material under Indian climate condition.



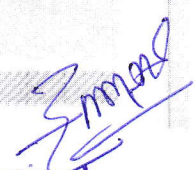
## VSI COMMITTEE MEETINGS

### 29<sup>th</sup> Institutional Bio-Safety Committee (IBSC)

The 29<sup>th</sup> meeting of Institutional Bio-Safety Committee (IBSC) of VSI meeting was held on 18<sup>th</sup> March, 2019 under the chairmanship of Mr. Shivajirao Deshmukh, DG, VSI in presence of Dr. P. Suprasanna, Head, FPBS, NABTD, BARC, Mumbai and DBT nominee., Dr. SK Raut, Consultant Doctor & Member, Shri. Vikas Deshmukh, Director, AST, VSI,

Dr. K. Harinath Babu, Senior Scientist, VSI – Member Secretary, Dr. RM Devarumath, Scientist & Member and Dr. SG Dalvi, Scientific Officer, VSI & member participated in the meeting. They discussed about various issues related to Bio-Safety, work progress and developing collaborations within and outside India for developing drought tolerant sugarcane.



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



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra

*Continuous Activity each year*

**Activity Name:** Soil testing

**Activity scope:** To analyse the soil samples and helping farmers and sugar mills in fertilizer management

**Activity details:**

Soil Science section of agricultural sciences and Technology Division of VSI established in 1986. The section has achieved significant success in research activities like site specific nutrient management, soil test crop response targeted yield approach, soil fertility management, GPS-GIS based soil fertility mapping, sulphur and silicon nutrition and formulation of agro-products. The section is engaged in development of organic sugarcane package, management of salt affected soil, use of humic acid and nano formulation. This section also deals with training & extension services to the sugar mills on sugarcane development at micro level and disseminates the information on soil and fertilizer management practices to increase the average sugarcane productivity and sugar recovery. Efforts are taken to promote application of fertilizers through drip irrigation and foliar application in sugarcane for increasing fertilizer use efficiency keeping this in view the section has formulated the fertilizers like Multi-Micro-Nutrient, Multi-Macro-Nutrient Liquid Fertilizers for foliar application, VSI-Microsol for fertigation and soil application which are available to the farmers through sugar mills and also in the Institute.



*[Signature]*  
Principal

**Vasantdada Sugar Institute**

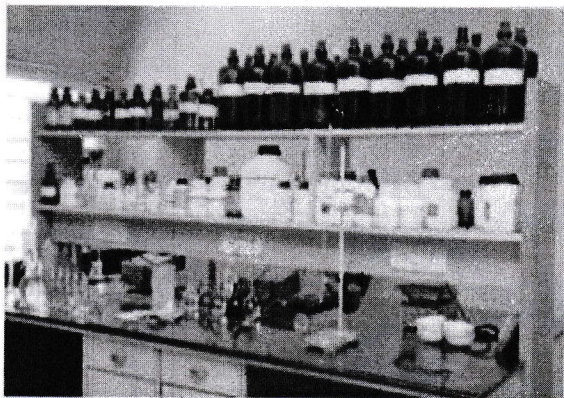
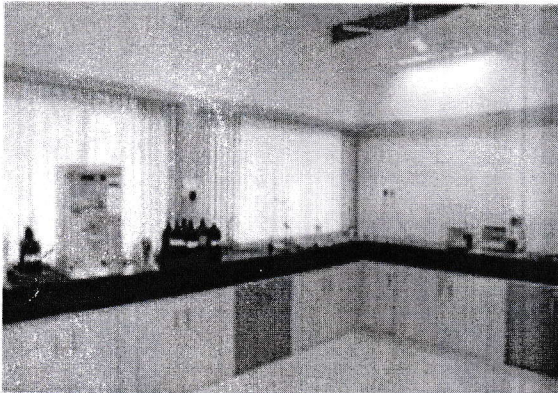
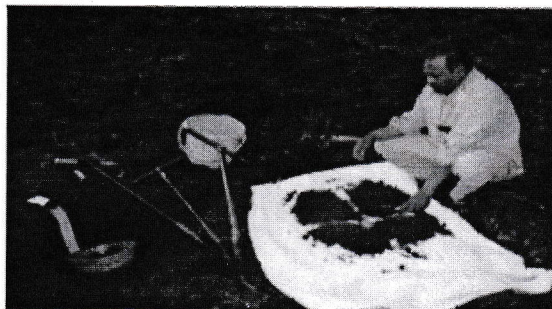
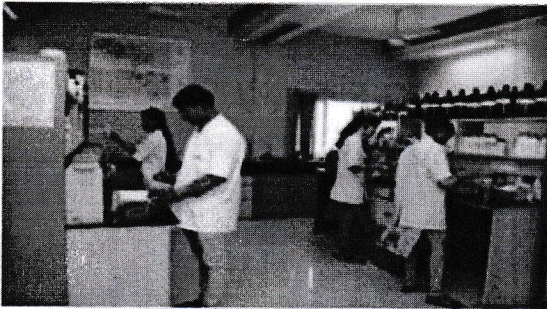
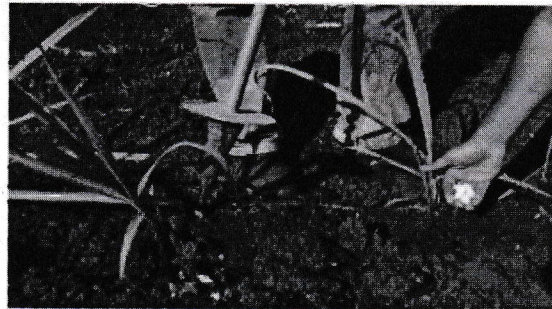
Manjari (Bk.), Tal. Haveli,

Dist. Pune - 412 307



# VASANTDADA SUGAR INSTITUTE

Manjari (Bk), Pune- 412307, Maharashtra



Facility for soil testing



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



**VASANTDADA SUGAR INSTITUTE**  
Manjari (Bk), Pune- 412307, Maharashtra

Reg.No.B.U.R.(P.R.R.)P.R.G.(A)-7(B)89-89/dt.12-8-88  
Felicited as the "Best sugar factory" in the country and Felicited with  
"Vanashree and Sahakar Bhushan" Award of Government of Maharashtra

देशव्यापीतः "उत्कृष्टतमं साखर कारखाना" पुरस्कार जीवितकाले न प्राप्त हो सका  
"वश्री व सहकार भूषण" पुरस्काराने सम्पादित करणाला अवैत

कर्मयोगी सुधाकरपंत परिचारक  
पांडुरंग सहकारी साखर  
कारखाना लि; श्रीपूर  
श्रीपूर, ता. माळशिरस, जि. सोलापूर पिन नं. ४१२११२

KARMAYOGI SUDHAKARPANT PARICHARAK  
PANDURANG SAHAKARI SAKHAR  
KARKHANA LTD; SHREEPUR  
A/p. Shreepur, Tal. Malshiras, Dist. Solapur, Pin No. 413112 AN ISO 9001-2015

IAE  
INTERNATIONAL  
AGRICULTURE  
EXHIBITION

Out No / 153 /Agri / 2023-24 Date- 28/11/2023

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

Subject:- Benefits of Soil testing laboratory established at factory site.

Dear Sir,

We have established soil testing laboratory at factory site under technical guidance of soil science section.

Presently we have provided soil analysis service of farmers of fertilizer management in sugarcane. It has been observed that Sugarcane yield increasing in the operational area of sugarcane mill

With regards,

Yours sincerely  
Dr. Y.S. Kulkarni  
MANAGING DIRECTOR

Office - (02185) 255233, 255344, 9075084960  
Website - www.pandurangusugar.com

E-mail - pandurangusugar@gmail.com  
E-mail - spsak\_sugar@yahoo.com

Appreciation received from sugar industry for soil testing facility at VSI



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