

**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**

**Metric No. 7.1.3**

**Action taken reports and achievement report as clear and green campus initiatives**



  
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# 2022-23



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| Sr. No. | Plan of Action  | Outcome   |
|---------|---|---|
| 1       | To educate the tribal people & VSI students on scientific process of mahua liquor production & its optimization.  | 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. This project was sanctioned by Principal Secretary, Department of Commercial Tax, Govt. of Madhya Pradesh and funded by Ministry of Tribal Affairs, Govt. of India. 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. Total number of participants was 13 (from outside) |
| 2       | To create awareness for sugar and allied industries about valorization of waste   | Organized workshop entitled valorizing waste from sugar & allied industries on 31 March 2022. The 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   |
| 3       | 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. | The student, staff and faculty members of VSI celebrated 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. Prof. S.W. Gosavi, Head, Departments of Physics & Environmental Sciences, Savitribai Phule Pune University, Pune delivered lecture on topic entitled "Use of Nanotechnology for Sustainable Development. Total number of participants were 85 (from outside).  |
| 4       | To create awareness about shrinking number as well as depleting habitat of Cheetah  | Ministry of Environment, Forest and Climate Change's regional office, Nagpur coordinated with Department of Environmental Sciences to organized 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,   |




  
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2023/12/20



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|   |   | shrinking number as well as depleting habitat of Cheetah was presented to audience. Students of environmental sciences and few faculty members attended the programme.  |
| 5 | To create awareness about importance of cleanliness                                   | Institute organized cleanliness drive under "Swachh Bharat Mission" on 02 Oct 2022. Students have actively participated in this drive   |
| 6 | To explain the process and actual site visit to students to an eco-restoration site   | One-day field visit organized for M.Sc. (Environmental Sciences) students by Department of Environmental Sciences for eco-restoration on 12th 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'. 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. |
| 7 | To discuss about issues related to bio-safety   | 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. They discussed about various issues related to Bio-Safety, work progress and developing collaborations within and outside India for developing drought tolerant sugarcane.  |
| 8 | To analyse the soil samples and help farmers and sugar mills in fertilizer management | 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          |



  
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|   |  | <p>training &amp; 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.</p> |
| 9 | To conduct the Green, Environment and Energy audit | Audit was done by Engress Services, Pune.   |



  
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# 2021-22



*Zampal*  
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| Sr. No. | Plan of Action  | Outcome  |
|---------|---|--|
| 1       | To use solar energy for energy production   | In a step towards Environmental Consciousness, VSI installed second a solar plant of 600 KWP capacity on 21 <sup>st</sup> January 2021.  |
| 2       | To overview the different aspects of distillery 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. The training has covered all the technical aspects related to distilleries such as Atmospheric and Mult pressure distillation, Characteristics of rectified spirit, Extra neutral alcohol etc.                  |
| 3       | 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 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. |
| 4       | To aware the students and farmers regarding the seed multiplication, its germination, and its impact on the society.  | VSI organized Seventh National Seed Day on October 2, 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. Mr. Sambhaji Kadupatil, Director General mentioned the importance of seed replacement in sugarcane. Participants: Total number of participants was 86 (from outside)                        |
| 5       | To conduct the Green, Environment and Energy audits   | Audit was done by Engress Services, Pune.  |



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# 2019-20




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| Sr. No. | Plan of Action   | Outcome  |
|---------|--|--|
| 1       | To disseminate information about latest technological developments in the field of industrial water management solutions.  | Presentation was arranged on "Industrial Waste Water Treatment & Water Management Solutions for Sugar and Distillery Industry" was arranged on 3 <sup>rd</sup> July 2019 to understand the latest technological developments in the field of industrial water management solutions, which can help technical staff of VSI to leverage better performance for our consultancy services to member and non-member Sugar/Distillery industry.  |
| 2       | To create awareness about the importance of non-fossil fuels as an alternative to conventional fossil fuels and to highlight the impact of all fuels on the environment. | Department of Alcohol Technology & Biofuels, had organized "World Biofuel Day" on 10th August 2019 an interactive session for students M.Sc. (Wine Brewing and Alcohol Technology). This interactive session helped students to understand the importance of non-fossil fuels as an alternative to conventional fossil fuels. Dr. S.V. Patil described first, second and third generation of Biofuels.   |
| 3       | To create awareness about the importance of non-fossil fuels as an alternative to conventional fossil fuels and to highlight the impact of all fuels on the environment. | On the occasion of wildlife week, Department of Environmental Sciences had organized two invited lectures. Of these, the theme of first lecture was use of modern equipment for wildlife monitoring (e.g., animal tracking system, etc). It was held on October 01, 2019 and delivered by Mr. Dnyanesh Rathod. He was associated with Wildlife Institute of India and worked on project related to monitoring of tigers. Students were amazed while observing the slides and videos related to use of camera traps, GPS and collarids, etc in monitoring or tracking tiger. In the post presentation discussion, few students expressed their willingness to pursue research in wildlife related theme |
| 4       | To use solar energy for energy production  | In a step towards Environmental Consciousness, VSI installed a solar plant. The 200 KWP Solar Project started on 16 May 2019.  |



  
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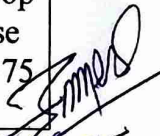
# 2018-19



  
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| Sr. No. | Plan of Action   | Outcome   |
|---------|--|---|
| 1.      | To create awareness in the students about importance of environmental sciences & its role in the society   | Celebrated "World Environment Day" on 5 <sup>th</sup> June 2018 & also organized book exhibition.   |
| 2.      | To create awareness about ecofriendly practices for sugarcane production   | Arranged seminar on 25 <sup>th</sup> January 2019 studying various innovative technologies to be adopted in the sugar industry and allied byproducts.   |
| 3.      | To create awareness about trash management in sugarcane cultivation  | Arranged one day workshop on 25 <sup>th</sup> January 2019. Participants got the idea of appropriate selection of sugarcane variety having good ratoonability, planting season and integrated ratoon management practices.  |
| 4.      | To create awareness about crop management under water stress condition   | Arranged workshop on 23 <sup>rd</sup> February 2019. Total 68 participants in the workshop were present from various sugar mills  |
| 5.      | Recently, there have been new notifications regarding environmental clearance for sugar and Distillery projects vis-a-vis the National Biofuels Policy as also the use of groundwater (CGWA). These will have an impact on the sugar and distillery industry. Considering the above it was decided to conduct workshop on the significance of environment and safety in sugar and allied industry. | A one-day awareness workshop on 'Recent developments in Environment and safety in the sugar and allied industry' was organized on 25 <sup>th</sup> February 2019  |
| 6.      | To create awareness among students about the importance of sugar industry waste for its valorization to different products   | Workshop titled "Valorizing waste (vWa) from Sugarcane industries via innovations in pretreatment, bio-production and process intensification" was arranged on 5 <sup>th</sup> March 2019. Participants learned about the opportunity for the sugar industry to valorise the waste for Biofuel & biochemicals production. |
| 7.      | To create awareness about advanced technologies for crop productivity and efficient use of water.  | Training program was conducted in two batches 25-27 <sup>th</sup> Feb 2019 and 1-3 <sup>rd</sup> March 2019 entitled "Advanced technologies for improving crop productivity and increasing water use efficiency in sugarcane". Total 375 farmers have participated.   |



  
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