



WORKSHOP WORKSHOP

Use of sugarcane juice/syrup, B-Heavy molasses and sugar for enhancement of fuel ethanol production and recent advances

One-day workshop entitled 'Use of sugarcane juice/syrup, B-Heavy molasses and sugar for enhancement of fuel ethanol production and recent advances' was jointly organized by the Department of Alcohol Technology and Biofuels, VSI and MRSSK Sangh Ltd., Mumbai at VSI on 28th August, 2019 with the active participation of sugar mills and distilleries from Maharashtra, Gujarat, Andhra Pradesh and Madhya Pradesh.

In the inauguration function, Mr. Shivajirao Deshmukh, DG welcomed guests Mr. Annasaheb MK Patil (President, Indian Federation of Green Energy and Ex-Minister, Gol, New Delhi), Dr. Sanjay Kumar Bhosale (Director-Byproducts, Commissionerate of Sugar, GoM), Dr. Ketki Bapat (Scientist-F, Office of Principal Scientific Adviser, Gol, New Delhi) and Mr. Sanjay Khatal (Managing Director, MRSSKSL, Mumbai) and felicitated. In his welcome address, he highlighted the present problems being faced by the sugar industry as well as the scope, perspective and vision of ethanol production using sugarcane juice/syrup, BH molasses and sugar.

Introductory remarks were given by Dr. SV Patil, Head and Technical Adviser, Department of Alcohol Technology and Biofuels, VSI. He described the objectives and agenda of the workshop. He emphasized on the importance of the ongoing workshop and developing an affordable technology for ethanol production using the white sugar, juice/syrup and molasses.

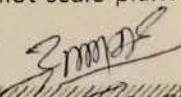
Dr. Sanjay Kumar Bhosle informed about the current status of ethanol blending policy. He also highlighted the reasons of inability of sugar mills to meet the demand of ethanol requirement. Dr. Ketki

Bapat delivered a speech on working principles of PSA to GOI and about the rural technology action group. She explained that VSI is able to find the gaps and has come out with technological solutions on pre-clarification of molasses and potash recovery from the incineration boiler ash. The key note address was given by Mr. Annasaheb M.K. Patil who emphasized on the current status of climate change and environmental pollution issues and further generation of ideas for bioethanol production from different bioresources and alternate raw materials. He explained his ideas on the production of ethanol from bamboo, sugarcane juice and molasses that can fulfill the aim of biofuel policy. He further explained about the difficulties being faced by the sugar industry and told that all sugar mills should aim to generate ethanol and other value-added products using molasses, raw sugar and distillery waste.

During the 1st technical section, Dr. SV Patil, gave a presentation on 'Cost economics of ethanol production from sugarcane juice/syrup B-Heavy molasses and sugar'. He emphasized on Indian and world sugar balance sheet, ethanol demand and price trend. He also mentioned that there is substantial opportunity to produce ethanol directly from sugar or juice/syrup or B-Hy molasses or C molasses which can fulfil the future ethanol demand as per the biofuel policy.

Dr. KS Konde, Joint Technical Adviser, VSI gave a presentation on 'Evaluation of pilot scale plant performance of pre-clarified molasses to improve alcoholic fermentation'. He explained about the lab-scale technology of pre-clarification developed at VSI and further results of the pilot-scale plant installed at M/S Daund Sugar Pvt Ltd.




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Mr. RG Mane, Secretary, Ethanol Association of India, talked on 'Demand and supply status of ethanol in India'. He explained about the Government policy on ethanol from 2002 to 2019, ethanol demand, ethanol quantity contracted by the OMC's and achieved blending ratio.

During the 2nd technical session, Mr. Avinash B. Deshmukh, Technical Officer gave a presentation on 'Potash recovery from incineration boiler ash'. He informed that VSI has developed the technology for potash recovery from incineration boiler ash on laboratory scale and further development to scale up this technology is in progress. Mr. DM Vare, Distillery

Manager, Loknete Sundarraoji Solanke SSK Ltd. gave a presentation on 'Practical experience and advantages of ethanol production from B-Heavy molasses route'. Mr. SA Patil, Scientist, VSI gave a presentation on 'Ethanol production from white sugar or raw sugar'. He explained that sugar can be used to produce ethanol with addition of molasses and press mud cake as the nutrient supplements. Dr. VP Sidnale, Senior Sugar Technologist, VSI and Mr. RV Godage, Scientist gave a presentation on 'Monitoring and certification of ethanol production from sugarcane juice and B-Heavy molasses'. In the concluding sessions, discussions were held and the event concluded with vote of thanks.



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