

Dr. Ambedkar College, Deekshabhoomi, Nagpur

Date: 30/12/2020

All the chemistry students and faculty are hereby informed that Department of Chemistry of our college has organized Guest lecture on "Environment Management in Pulp and Paper industry" on dated 30/12/2020 on Zoom Meeting at 4:00 PM.

The guest speaker is Mr. Chandrashekhar Kashikar, Vice President at West Coast paper mills limited, Dandeli, Karnataka.

You are requested to join the zoom meeting.

Program Coordinator

1. Dr. V. M. Shivankar

Professor


Department of Chemistry

2. Dr. Mrs. D. M. Borikar,

3. Dr. H. G. Telkapallimar,

Associate Professor

Chemistry Department



Principal B. Ambedkar
30-12-2020

Officiating Principal
Dr. Ambedkar College,
Deekshabhoomi,
Nagpur.

Dr. Ambedkar College Deekshabhoomi Nagpur
Guest lecture on “Environment management in Pulp and Paper Industry”
Department of Chemistry

This guest lecture on **Environment management in Pulp and Paper Industry** was organised by the department of chemistry of the college. The guest speaker for this function was Mr. Chandrashekhar Kashikar, vice president at west coast Paper Mills Limited, Dandeli, Karnataka.

This online guest lecture was organised on dated 30/ 12/ 2020.

This program started with the introductory speech of our Hon. Principal of the college Dr. B.A. Mehere. This program was conducted by Dr. V.M. Shivankar, Professor of chemistry department. Dr. Mrs. D.M. Borikar, faculty chemistry department, has introduced the chief guest of this function. Mr. Chandrashekhar Kashikar who is working Currently Vice president at West Coast Paper Mills Limited, Dandeli Karnataka. Before joining wcpm, he was heading R and D department in Bilt, Ballarpur Maharashtra and corporate sustainability head for seven units built in India and one unit in Malaysia in CPCB New Delhi for Namami Gange project of the central government. He has over 24 years of experience in paper industries. He is a Post graduate in the chemistry department from Nagpur University, department from Nagpur, and MBA from Symbiosis Pune. He has vast experience in operations, research and development and sustainability areas of Pulp and Paper Industry. He has presented papers in various National and international conferences and seminar.

Chandrashekhar Kashikar in his speech covers important points. about sustainable development and gives Industry oriented lectures. He also explained very well about environment management during the process of working at the paper mill.

The paper industry contains a number of emission factors like solid waste, dust, liquid waste etc. in the process. In the paper industry the main raw material required is wood. and bamboo. In large quantities material is required for the production of quality paper.

In the Pulp and Paper Industry it is required to maintain the environmental balance. Water conservation is very important during the production, this can be achieved by recycling wastewater and reduces water wastage in the process. the source reduction method is applied by adoption of cleaner Technology.

In the Paper and pulp industry effluent treatment is used for the better effect of environmental balance. ETP process layout diagram should be followed in the paper and pulp industry.

Primary, secondary and tertiary treatment is to be carried out during the operation of the paper industry. Moving bed biofilm reactor methods are also used in paper and pulp industries.

Dissolved air flotation is to be done during the process.

Air emission management is necessary during the process. Coal quality to be used for emission control. mercaptan, and ethyl methyl mercaptan etc Chemicals are used.

The lime used in the boiler which absorbs calcium carbonate.

In his lecture he also explained about solid waste material, dust material, lime mud, ETP sludge use in bead manufacturing as it is also generated in the industrial waste.

More than 200 teachers and students participated in the lecture.

Dr V.M. Shivankar the programme coordinator has conducted the vote of thanks. Dr. Mrs. D.Y. Panhekar, Dr. Mrs.D.M. Borikar, Dr. N. G. Telkapalliwar were prominently present in the guest lecture.

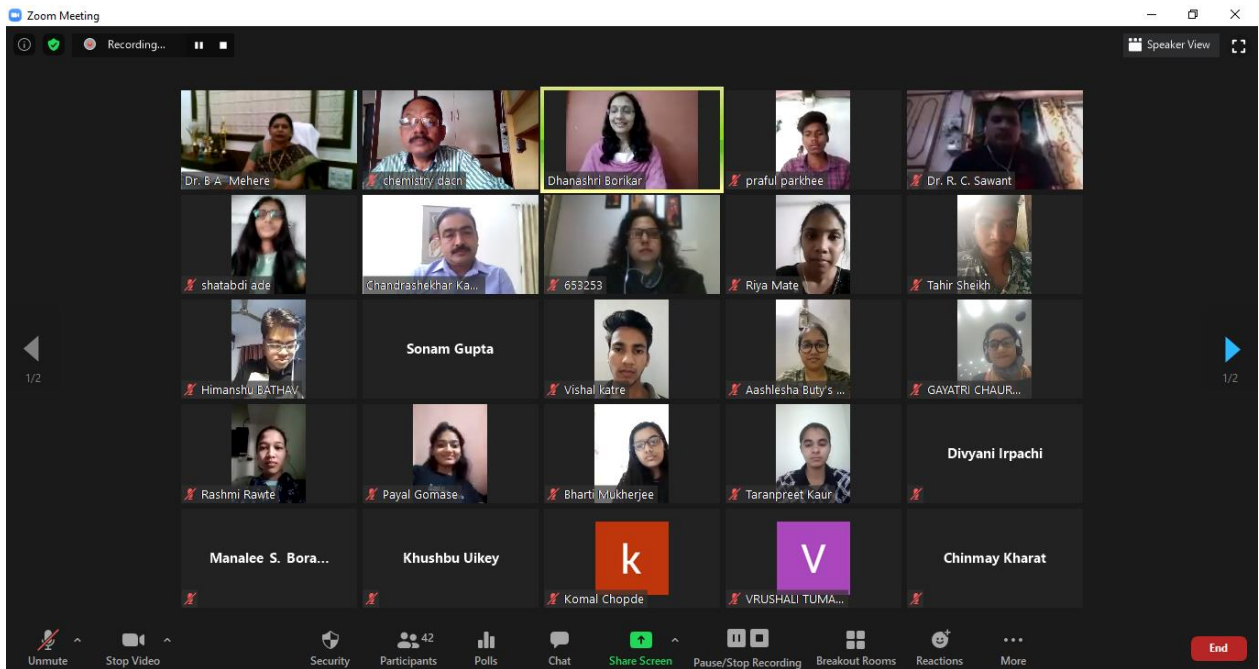
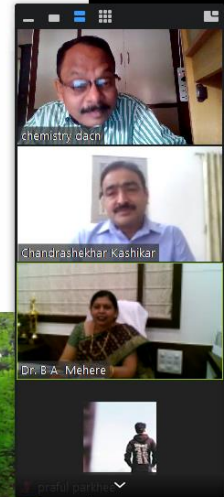


Environment Management in Pulp & Paper Industry Sustainability Perspective

C S Kashikar
Vice President, Operations
West Coast Paper Mill Ltd,
Dandeli, Karnataka



30th December 2020

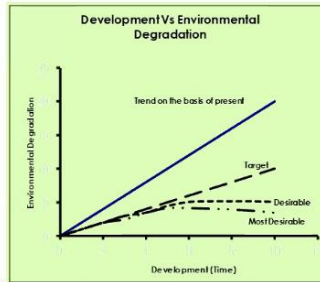




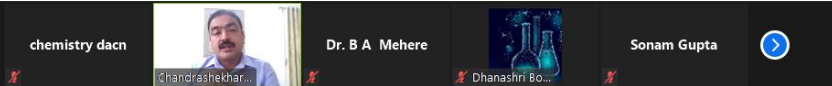
Recording...

Environment Management

- ❑ The cost of inaction is more than the cost of action
 - ❑ Stricter Regulations
 - ❑ Stricter Judiciary
 - ❑ Green Movement
 - ❑ Public Awareness



- ❑ Required To Sustain.....



Recording...

Air Emissions

- ESPs
- Boiler Modifications – FBC – AFBC / CFBC Boiler
- Stringent Air Emission Norms
 - SPM – 50 mg/Nm³
 - ESP
 - Bag House
 - Scrubbers
 - SO₂ – 600 mg/Nm³
 - Use of Low Sulphur fuels
 - Flue Gas Desulphurization
 - NOx – 300 mg/Nm³
 - Modification of operating conditions
 - Catalytic Combustion
 - Selective Catalytic Reduction
 - Electron Beam Radiation
- NCG Burning System
 - Burning in Limekiln / Recovery





Solid Wastes

- Type of wastes
 - Chipper dust – used as a fuel
 - Coal ash – used in cement industries
 - Lime mud – recycled through lime kilns
 - ETP Sludge – used in board manufacturing
- All solid wastes are to be gainfully utilized
- Specific solid waste generation to be reduced significantly
- Streamlined disposal practices
 - Zero land discharge of solid wastes



ETP Process Layout

