



Central Pulp & Paper Research Institute

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News Bulletin on Pulp,
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MANAGEMENT NEWS

The first meeting of reconstituted Development Council for Pulp, Paper & Allied Industries was held at Udyog Bhawan, New Delhi on March 13, 2015 under the chairmanship of Shri Pradeep Dhobale, Executive Director, ITC Limited. The other dignitaries who participated in the meeting were Shri Shailandra Singh, Joint Secretary DIPP, Ministry of Commerce & Industry, Shri Harshpati Singhania, MD, JK Papers, Shri Yogesh Aggarwal, MD, BILT, Shri Gopal Ratnam, CMD, SPB, Shri R. Vadera, MD, BILT, Shri Pramod Aggarwal, President IARPMA & other members of DCPPIAI, senior scientists from CPPRI and industry personnel. The agenda of the meeting was presented by Dr. R. K. Jain, Scientist 'F', CPPRI on behalf of Member Secretary DCPPIAI, welcome the honorable chairman and members of DCPPIAI. During the meeting various issues related to Indian Pulp and Paper Industry, follow up action on the decisions of the last meeting, status of cess funded projects, reconstitution of Cess Committee etc. were taken up for discussion.

RESEARCH AND DEVELOPMENT ACTIVITIES

RAC Projects

Raw Material and Product Development

Utilization of Rice Straw and other Non Conventional Raw Materials for Production of Various Grades of Pulp

Optimization studies for kraft pulping of Melia dubia (3rd year) collected from FRI, Dehradun was carried out. The pulp thus produced was further processed using the TCF bleach sequence & followed by its evaluation for various properties of interest.

Further studies on exploration of rice straw for production of bleached grade paper were taken up which basically includes the pre-treatment of the raw material using methanol followed by alkaline sulphite

/ soda pulping. Characteristics of pulp such as yield, Kappa number, brightness, viscosity and black liquor properties viz. residual active alkali and total solids were carried out. Rice straw pulp was further bleached under TCF conditions and final brightness and viscosity were analyzed.

New Approaches in Processing & Paper Making of Recycled Fibre to Improve the Quality of End Product.

Fibre Strength improvement of indigenous waste paper

Blending studies on used Tetra Pak carton with Indian OCC and American OCC was carried out. Study revealed that blending of used Tetra Pak carton with Indian OCC and American OCC improves the final strength properties. There was around 24-28% improvement in Zero Span Tensile Strength (ZSTS), 25-55% improvement in burst factor, 35-40% improvement in tensile strength and 25-30% improvement in tear factor of packaging grade of paper in comparison to 100% Indian OCC and American OCC.

Energy conservation and Environmental Management

Implementation of Enzyme Application in Pulp & Paper Industry

The project aimed towards modification of fibre for improving properties of the a paper besides in conservation of energy during refining of pulp. In continuation of earlier work, studies were carried out on optimizations of various physical and nutritional parameters with identified microorganisms having potential for cellulase / laccase enzyme production. Enzyme production was also continued with various inducers. Cellulase activity was found 25 IU/g for CMCase and laccase activity was found 12500 IU/g by using wheat bran as substrate under optimum conditions. The studies are continued to enhance the activity level of indigenously developed enzymes for

application in bio-refining / bio-bleaching. Biorefining of Bamboo pulp was conducted with commercial cellulase and indigenously developed cellulase enzymes. Results were found encouraging in respect of 15-18% energy savings with commercial enzymes and 13-15% energy savings with indigenously developed cellulase enzyme with improvement in strength properties.

Bioremediation studies were continued for removal of pollution load from paper mill effluent. Isolation of effective microbes for effluent treatment from effluent and sludge samples collected from various paper mills was carried out. Primary screening was done by plate assays using increasing concentration of lignin. Bioremediation studies were carried out with 25 acclimatized screened bacterial strains using individual strain and in different combinations for removal of pollution load from wood based paper mill effluent. About 25-30% reduction in colour and COD were achieved.

Incremental Capacity Enhancement and Improved Efficiency of Conventional Chemical Recovery System in Wood and Non wood based Paper Mills.

Wheat straw black liquor collected from mill was subjected to lignin separation partially from black liquor with an aim to debottlenecking of chemical recovery system in the mills going for ODL and / or marginal expansion of pulp mill.

Residual filtrate of black liquor after lignin separation was mixed with black liquor in different ratio. Studies on composition and behaviour of mixed black liquor are continued.

Liquor heat treatment of desilicated wheat straw black liquor was carried out on pilot plant scale. The studies have shown over 85% reduction in silica content and a viscosity reduction of 70% was observed.

Water Conservation through Application of

Kidney Technology in Indian Pulp and Paper Industry

Studies were conducted on ozone treatment of treated pulp and paper mill effluent (Secondary Clarifier overflow) with the objective to reduce color and pollution load. Ozone gas generated in the lab ozone generator was passed through reaction cell containing treated effluent for different time intervals. The preliminary results indicate encouraging reduction in terms of Color & Lignin (around 95%) and residual COD reduction of around 40%. Studies have been initiated to determine the TDS and COD generation in back water from pulping of different grades of waste paper and consequently its build up. Further Studies are in progress.

Infrastructure Development and Capacity Building Activities

Setting up of Paper Board and Speciality Paper Testing Facilities at CPPRI

The Crush Tester (L&W Make) with different attachments has been received by the paper testing laboratory. The Crush tester (L&W Make) is the latest version with essential attachments of RCT, ECT, SCT, PAT and SQC. This will strengthen the testing facilities of CPPRI in the field of paperboard testing.

Cess Projects

Improvement in Selectivity of Oxygen Bleaching

Pulp from M/s Star Paper Mill, Saharanpur was collected. Oxygen delignification studies for mill pulp under control and on addition of chemical additives are planned and further work is in progress.

Census Survey of Indian Paper Industry

Activities were continued for collection of authentic and reliable data for pulp and paper industry through primary and secondary sources. Based on primary data collected from 392 mills, classification of mills based

on raw materials used was completed. As per available data 260 mills were identified as either idle / closed. Collection of data for remaining 197 mills is under progress.

Sponsored Projects

Understanding and Control of Pitch in Fibre Line - Sponsored by Century Pulp & Paper (CPP), Lalkua, Distt. Nainital (U.K)

To understand the pitch deposition, species which are being used as raw material in Century pulp and paper were studied for characterization of the colloidal wood resin released by a mechanical treatment of chips (native colloids) where no chemical modification has occurred. Further to characterization of native colloids in different wood species, it is observed that eucalyptus (market) and veneer chips are the two wood species which are prone to release native colloids that shows high aggregation index and high precipitation index. Among all wood species, these two wood species are major contributor to pitch deposition phenomena in the process line. Further studies were extended on filtrate sample from different location of the process line to assess the colloidal destabilization of the filtrate.

Efficacy Studies on Nano Dispersible Particles for the Dissolving Grade Pulp Application - Sponsored by Tata Chemicals Ltd., Pune, Maharashtra

The aim of the project was to evaluate the performance of novel nano dispersible particles for the dissolving grade pulp applications. For this purpose the unbleached pulp was bleached using sequence C-EP/Oo-H-EP-D under control and after incorporating nano particles. Properties of both the beached pulps were compared in terms of ash content, Kappa number, viscosity, whiteness, iron content, resin, pentosans, acid insolubles, brightness etc. Nano particles were found effective in terms of reduction in metal ions viz. iron and calcium as well as resin and also improved brightness. Project is completed and

technical report has been submitted to sponsored agency.

Additive Pulping of Acacia woods - Sponsored by Solenis Singapore Pvt. Ltd., Singapore

The objective of the project was to evaluate the response of different additives on kraft pulping of Acacia woods. The study included optimization of chemical dose for desired Kappa number, comparison of pulp characteristics viz. kappa number, screened and unscreened yield, rejects, viscosity, brightness, extractive contents, freeness etc. Project is completed and technical report has been submitted to sponsored agency.

Laboratory and Pilot Plant Pulping and Bleaching Trials of Agrifibres - Sponsored by ITC Life Sciences and Technology Centre, Bangalore

The objective of the project was laboratory as well as pilot scale pulping and bleaching of Agrifiber supplied by ITC. Laboratory scale studies involved proximate chemical analysis of Agrifiber; Optimization of pulping by Kraft or Soda AQ process to achieve desired kappa number; DOEpD1 bleaching of unbleached Agrifiber pulp to achieve desired brightness; Bauer McNett fibre classification to determine the fine loss, evaluation of unbleached and bleached pulp for physical strength properties; analysis of final bleached effluent for BOD5/COD, AOX, TSS, pH etc. Fibre morphological characterization of final bleached pulp. For pilot scale trial one ton Agrifiber was transported to CPPRI by ITC. Pulping and bleaching at pilot scale was to be performed at identified optimized conditions and all the analysis mentioned above are to be carried out pulp obtained by pilot scale trial.



Figure: Chipping of Agrifibre from ITC is in progress

Repulping Study of Broke Generated during Manufacturing of Bank Note Paper - Sponsored by Bank Note Paper Mill India Pvt. Ltd.; Mysore

On request of Bank Note Paper Mill India Pvt. Ltd.; Mysore, CPPRI has conducted study on the broke generated during manufacturing of Bank Note Paper with an aim utilize currency broke through application of suitable technology developed by CPPRI employing different unit operations like repulping, screening and washing being practiced in recycled fibre based mills. The studies carried out revealed that slushing of currency broke essentially requires a strong oxidizing agent to break the covalent bonds for defibrisation, as it contains high wet strength to the tune of 35%.

Improved Chemical Recovery and Energy Efficiency through Liquor Heat Treatment in Combination of Desilication

This industry sponsored project basically aims to debottleneck the existing evaporation capacity to achieve high dry solids by way of reducing viscosity of wheat straw black liquor.

Lab scale and Plant scale studies were conducted successfully at mill site. Around more than 60% reduction in viscosity could be achieved. On the basis of encouraging findings the mill is planning to install liquor heat treatment plant at the mill.

TECHNICAL / CONSULTANCY SERVICES

A-Following technical services were provided to various Pulp, Paper & Allied Industries by the Institute during January 2015 - March 2015. Details are as under:-

- ♦ 528 Nos. of sample were evaluated for different paper properties like Brightness, Opacity, Tensile, Tear, Fold Endurance, Burst Index, Fiber Characteristics, Furnish Analysis and Cobb analysis

- ♦ 12 Nos. of samples of Black Liquor, Raw Material, Petcock, Lime, Lime Sludge, Lignin, Lignosulphonate were analysed for various Physico-Chemical, Thermal and Rheological properties.
- ♦ 24 samples of Black Liquor, Hard wood, Sulphate, Deposite, Lignin and Lignosulphonate were analysed for various Elemental properties viz. Fe, K, Ca, Na, Mg, Hg, N, Al, Zn, Ti, Lignin purity and CHNS analysis.
- ♦ Evaluation of market RCF pulp for fibre quality carried out for Everest Industries Ltd; Distt. Haridwar, Arachanas Traders; Chennai and Brown Group; Mumbai
- ♦ Repulpability study of waste paper / adhesive tape carried out for Grippo Solutions (India) Pvt. Ltd.; Mumbai (M.S).
- ♦ Testing of Poly Aluminum content and fibre content in Tetra Pak rejects carried out for Parason Machinery (I) Pvt. Ltd; Aurangabad (M.S).
- ♦ 15 waste water samples were analyzed for different pollutional parameters.
- ♦ Analysis of Talc / Soap stone powder for Abrasion value for Udaipur Mineral Development Syndicates Pvt. Ltd. (Golcha Group); Udaipur.
- ♦ Evaluation of Modified starch samples to study its impact on First Pass Retention (FPR) of fines and fillers for Anil Group of Companies; Ahmedabad (Guj.).

B-Technical Services Rendered to the following mills for environment monitoring in terms of water, air monitoring and ETP adequacy-

- ♦ The West Cost Paper Mills Limited., Dandeli, Karnataka

- ♦ Shreyans Industries Limited., Ahmedgarh, Punjab
- ♦ Sahota Papers Ltd., Jaspur, Uttarakhand
- ♦ East Wet Products Limited., Khatema, Uttarakhand
- ♦ JK Papers Ltd., Rayagada, Orissa
- ♦ Sangal Papers Pvt. Ltd., Meerut, Uttar Pradesh
- ♦ Hind Brick Udyog, Saharanpur, Uttar Pradesh
- ♦ Centre for Environmental Studies. Anna University, Chennai
- ♦ BILT Graphic Paper Products Limited. Chandrapur , Maharashtra
- ♦ Grasim Industries Limited, Haveri, Karnataka.
- ♦ Suyash Kraft Papers Limited, Muzaffarnagar, Uttar Pradesh
- ♦ Bindal Duplex Ltd., Muzaffarnagar, Uttar Pradesh
- ♦ Agrawal Duplex Board Mills Ltd., Muzaffarnagar, Uttar Pradesh
- ♦ Sidharth Papers Ltd., Kashipur, Uttarakhand
- ♦ Siddeshwari Paper Udyog Ltd., Kashipur, Uttarakhand
- ♦ Naini Tissues Limited, Kashipur (Uttarakhand)
- ♦ Naini Papers Limited., Kashipur, Uttarakhand
- ♦ Century Pulp & Paper, Lalkuan, Uttarakhand
- ♦ Shree Shyam Pulp & Board Mills Ltd., Kashipur, Uttarakhand
- ♦ Maruti Papers Limited, Shamli, Uttar Pradesh
- ♦ Shree Venketesh Papers Mills Limited, Meerut, Uttar Pradesh
- ♦ Orient Paper & Industries Limited, Shahdol, Madhya Pradesh

- ♦ Star Paper Mills Ltd., Saharanpur, Uttar Pradesh

WORKSHOP/SEMINAR/MEETING

WORKSHOP / SEMINAR

CPPRI Scientists visited different organizations to participate in the following workshop/seminar-:

- ♦ Dr. B.P. Thapliyal, Scientist E-II attended as the Sector Expert the PAT regional workshop at Hyderabad on 4.3.15, organized by BEE, New Delhi
- ♦ Dr. B. P. Thapliyal, Scientist E-II, attended the PAT Workshop at Chandigarh on 20-21st March 2015..

MEETINGS

CPPRI Scientists visited different organizations to participate in the following meetings -:

Meetings Attended

- ♦ Dr. S. Panwar & Dr. Nitin Endlay attended a meeting on Implementation of Charter for Water Recycling & Pollution Prevention in Pulp & Paper Industries (Phase II) at Paryavaran Bhawan, Central Pollution Control Board Delhi on 10.3.2015.
- ♦ Dr. S.Panwar & Dr.Nitin Endlay attended a meeting convened by CPCB Chairman Shri Shashi Shekhar at Ministry of Environment , Forests & Climate Change on Implementation of Charter for Water Recycling & Pollution Prevention in Pulp & Paper Industries (Phase II) on 19.3.2015 at Indira Paryavaran Bhawan, New Delhi

TRAINING

TRAINING ORGANISED

CPPRI successfully organized a 5 day Training

Programme on Treatment and Removal of TDS and Other Pollutants to Promote Zero Liquid Discharge in Pulp and Paper Mills from February 09 - 13, 2015 at CPPRI Saharanpur. The programme was sponsored by Central Pollution Control Board (CPCB). Around 20 participants from various State Pollution Control Board, CPCB & CPCB Zonal office attended the training programme. The objective of the training programme was to disseminate information on - Need & Benefit of Water Conservation, Strategies & approach to reduce water consumption, Guidance to mills for achieving Improved environmental compliance etc. The faculty from Pantnagar University, IIT Roorkee, Technology Suppliers, Mill Officials and CPPRI Scientist made presentations during the programme. Industrial visits for the participants to Star Paper Mills Ltd., Saharanpur & Hindustan Unilever at Sidcul Hardwar was also arranged.



Participants of the Training Programme with CPPRI Faculty



Valedictory Function

- ♦ Two Mill personnel from Seshasayee Paper and Boards Ltd., Erode, Tamilnadu undergone one

week training in areas of pulping, bleaching and particularly in oxygen delignification.

- ♦ Training was imparted to one B.Sc. and two M.Sc. students in the area of microbiology and biotechnology.

TRAINING PROGRAMME ATTENDED

- ♦ Dr. Nitin Endlay & Dr. Sanjay Tyagi attended 4 day training programme on Laboratory Quality Management System and Internal Auditing in accordance with IS / ISO / IEC / 17025:2005, jointly organized by Green Economy initiatives Private Limited & Institute for Spatial Planning & Environment Research at Panchkula from January 8-11, 2015.

LECTURES AND PRESENTATIONS

LECTURES

Following Lectures were delivered by CPPRI faculty in CPCB Sponsored Training Programme on Treatment and Removal of TDS and Other Pollutants to Promote Zero Liquid Discharge in Pulp and Paper Mills from February 09 - 13, 2015 at CPPRI Saharanpur:

- ♦ Biotechnology - Emerging Technologies to Combat Environmental Pollution - Dr. R. K. Jain
- ♦ Impact of System Closure on Papermaking - Mrs. Rita Tandon
- ♦ Water Conservation in Pulp & Paper Industry- Dr. S. Panwar
- ♦ Application of Water Pinch Analysis for Water Conservation in Indian Pulp & Paper Industry" - Dr. B. P. Thapliyal
- ♦ Prospects of Kidney Technology in Closing the Water Loop in Paper Industry - Dr. M. K. Gupta
- ♦ Significance of Pollutational Parameters, Their

Source & Methods for their Reduction - Dr. S. Mishra

- ♦ System Closure in Indian Pulp & Paper Mills-Issues, Options & Feasibility - Dr. Nitin Endlay
- ♦ Latest Developments in Pulping & Bleaching Technologies to Reduce Water Consumption & Pollution Load Generation - Dr. Priti S. Lal., CPPRI
- ♦ Efficient Black Liquor Management Techniques to Reduce Pollution Load - Dr. A. K. Dixit
- ♦ Dr. Sanjay Tyagi, Scientist C delivered lectures on "Paper making" to the students of B.Tech IInd Year at Department of Paper Technology, IIT Roorkee (Saharanpur Campus)
- ♦ Dr. Sanjay Tyagi, Scientist C delivered lectures on "Mechanical Engineering Drawing" to the students of B.Tech IInd Year at Department of Paper Technology, IIT Roorkee (Saharanpur Campus)
- ♦ Dr. Sanjay Tyagi, Scientist C delivered lectures on "Paper Machine Design" to the students of M.Tech IInd Year at Department of Paper Technology, IIT Roorkee (Saharanpur Campus)
- ♦ Dr. B. P. Thapliyal, Scientist E-II delivered lectures on "Performance Evaluation" to the students of M. Tech (Packaging) Ist Year at Department of Paper Technology, IIT Roorkee (Saharanpur Campus)

REPORTS AND PUBLICATIONS

Reports

Adequacy Assessment & Performance Evaluation of Effluent Treatment Plant for Treatment of Mill Effluent at Bilt Graphics Paper Products Limited - Unit Ballarpur, District Chandrapur, Maharashtra

Publications

- ♦ Kumar Anupam, Vinay Swaroop, Arvind Kumar Sharma, Priti S. Lal, Vimlesh Bist (2015); Sustainable raw material selection for pulp and paper using SAW multiple criteria decision making design; IPPTA Journal, 27 (1) 67-76.
- ♦ Chetna Gupta, Priyanka Jain, Dhermender Kumar, Dr. A. K. Dixit and Dr. R. K. Jain, "Production of cellulase enzyme from isolated fungus and its application as efficient refining aid for production of security paper" International Journal of Applied Microbiology and Biotechnology Research 3 (2015) 11-19.

PATENT FILED

Rakesh Kumar Jain, Ashwini Kumar Dixit; "Removal of Color from Paper Mill Effluent Using Fly Ash"; Indian Patent Application No.: 430/DEL/2015.

INTERACTION WITH INDUSTRY

- ♦ M/s Satia Industries Ltd., Punjab regarding liquor heat treatment technology transfer from CPPRI to the mill.
- ♦ M/s Godavari biorefinary Ltd., regarding production of suitable high quality cellulose pulp from bagasse on pilot scale for its application for cellulose derivatives.
- ♦ Hindustan Paper Corporation Ltd., Assam for technical support for quality improvement and improved efficiency of Chemical Recovery system.

Mill Visits

CPPRI Scientists visited the following mills and other organisations during January 2015 - March 2015.

S.No.	Mill Name	Purpose
1-	Institute for Spatial Planning & Environment Research, Panchkula	NABL Training Programme
2-	Indian Paper Manufacturer Association	To attend meetings related to CPCB Charter Implementation & Participation in IPMA's AGM
3-	Shree Ram Chandra Straw Products Ltd., Moradabad, U.P.	Technical Services (Effluent Sample Collection) & Analysis)
4-	Ordinance Factory, Itarsi, U.P.	Water Audit
5-	KP Pulp & Paper Ltd., Sahajahapur, U.P.	ETP Adequacy Assessment
6-	Paper Mill Association, Muzaffarnagar, U.P.	For preliminary discussions related implementation of CPCB charter
7-	BP Paper Ltd., Kashipur, Uttarakhand	For technical Services (Effluent Sample collection and Analysis)
8-	CPM, Songarh, Gujarat	For NCG Monitoring
9-	The International Paper APPM Pvt. Ltd., Vishakhapatnam, A.P.	ETP Adequacy Assessment & Performance Evaluation
10-	Gangotri Paper Mills Ltd., Roorkee Uttarakhand	For Verification of ZLD status & ETP Adequacy assessment
11-	Satia Paper Mill, Punjab	To conduct pilot plant treatment on desilication of wheat straw black liquor
12-	Godawari Biorefineries Ltd., Mumbai	Meeting with chairman and G.M. in connection with technical support for installation of pilot plant for production of cellulose.
13-	Satia Paper Mill, Punjab	To conduct studies on liquor heat treatment of wheat straw black liquor.
14-	Patent Office, New Delhi	For filing of patent entitled "Removal of Color From Paper Mill Effluent Using Fly Ash"
15-	Century Pulp & Paper Mill, Lalkuan, Distt. Nainital (U.K.)	To collect pulp & back water sample for Pitch evaluation as on February 10, 2015
16-	DIPP, Udyog Bhawan, New Delhi	To attend meeting of Development Council
17-	DIPP, Udyog Bhawan, New Delhi	To discuss the policy intervention required for paper industry.
18-	Century Pulp and Paper Mill, Lalkuan, Uttarakhand	For Techno-economic discussions as Joint Energy Audit by CPPRI and PCRA, New Delhi on January 9, 2015
19-	RBI, Fort, Mumbai	For discussion on various issues related to longevity of Indian Bank Notes.
20-	GEIPL, Zirakpur, Punjab	For taking part in four days training program on Quality management system, Internal auditing and accreditation requirement in January 2015.

21-	TRRL, New Delhi	To discuss the issue regarding signing of MOU with TERI and for award of the study to CPPRI on Industry Status Report on February 25, 2015
22-	Printing and Stationary Deptt. of Lucknow, U.P.	For taking part in meeting related to technical bid of tender opening in February 2015.
23-	M/s. Rana Paper Mill Ltd., Muzaffarnagar M/s. Binda Duplex Ltd., Muzaffarnagar M/s. Bageshwari Paper Mill Ltd., Muzaffarnagar M/s. Shakumbari Pulp & Paper Mills Ltd., Muzaffarnagar M/s. Rama Papers Ltd., Kiratpur M/s. Katyayini Paper Mil Ltd., Kashipur M/s. Multiwal Paper Mill Ltd., Kashipur M/s. Cheema Paper Mill Ltd., Kashipur M/s. Naini Paper Mills Ltd., Kashipur M/s. Siddarth Paper Mills Ltd., Kashipur M/s. Shweta Paper Mills Ltd., Kashipur	For the collection of data related to energy consumption and mill production in the month of February 2015
24-	BIS, New Delhi	To attended the 18th Meeting of Chemical Division, Council in BIS, Delhi, on March 17, 2015 regarding the BIS standards.
25-	BIS, New Delhi	To discussed various issues of Newsprint standard revision and development of standard for handmade papers.
26-	Udyog Bhawan, New Delhi	To attend the meeting of Development Council on March 13, 2015 at Udyog Bhawan, New Delhi
27-	Sripathi Paper & Boards Pvt. Ltd., Sivakasi	To collect News Print Sample

VISITORS

- ◆ Dr. R. S. Saini, Green Economy Initiatives Private Limited, Mohali
- ◆ Dr. R. K. Srivastava, Associate Professor, G. B. Pant University of Agriculture and Technology, Pantnagar
- ◆ Shri S.C. Desai, GM, Vaibhav Paper Mills Ltd., Vapi, Gujarat
- ◆ Dr. Vivek Kumar, IIT Roorkee (Saharanpur Campus)
- ◆ Dr. Abhijeet Maiety, IIT Roorkee (Saharanpur Campus)
- ◆ Dr. Sujay Chattopadhyay, IIT Roorkee (Saharanpur Campus)
- ◆ Shri Atul Parmar, Asst. Env. Engineer, H.P. State Pollution Control Board, Regional Office, Baddi
- ◆ Shri Anil Kumar, Environmental Officer, Karnataka State Pollution Control Board, Head Office, Peenya, Bangalore
- ◆ Dr. Ankur Kansal, AEO, Uttarakhand Environment Protection & Pollution Control Board, Regional Office, Roorkee
- ◆ Ms. Alka Srivastava, Jr. Scientific Assistant, CPCB, PCI (SSI), Head Office, Delhi
- ◆ Shri D. N. Dev Choudhury, EES, Assam State Pollution Control Board, Guwahati
- ◆ Shri Gunasekaran R, Assistant Engineer,

Tamil Nadu State Pollution Control Board,
Thoothukudi

- ◆ Shri Jacob Mathew, Project Manager, The Canara Paper Mills Pvt Ltd., Changanacherry Kottayam District - Kerala
- ◆ Shri Mridul Boruah, Assistant Engineer, Assam State Pollution Control Board, Bongaigaon
- ◆ Shri Manmohan Murmu, Asst. Env. Engineer, State Pollution Control Board, Odisha, Regional Office, Balasore
- ◆ Shri Mallikarjuna Rao, Surya Chandra Paper Mill Ltd., East Godavari, District, A. P.
- ◆ Shri Pawan Kumar, Jr. Env. Engineer, H.P. State Pollution Control Board, Regional Office, Paonta Sahib (Kala Amb)
- ◆ Shri Rakesh Ku. Mohanty, Asst. Env. Engineer, Odisha State Pollution Control Board Regional Office, Rayagada, Orissa
- ◆ Shri Ravipal, Assistant Env. Engineer, Punjab State Pollution Control Board, Regional Office, Sangrur, Punjab
- ◆ Dr. S. Rajendiran, Assistant Engineer, Tamil Nadu State Pollution Control Board, Sriperumpudur
- ◆ Shri Ramesh D. Naik, Environmental Officer, Karnataka State Pollution Control Board Bangalore
- ◆ Shri R. Rajkumar, Scientist 'C', CPCB, Zonal Office, Bangalore

INDUSTRIAL TOUR

M.Sc (Cellulose & Paper Technology)

- ◆ The students of M.Sc (Cellulose & Paper Technology) went on a industrial tour along with Dr. S. Panwar & Dr. Nitin Endlay to Bindal Papers Ltd. and Muzaffarnagar,

Siddeshwari Industries (P) Ltd, Muzaffarnagar and Star Paper Mills Ltd. Saharanpur to get conversant about the technologies and process adopted by agro based , waste paper based and wood based pulp and paper mills for papermaking as well as effluent treatment systems adopted by the mill.

- ◆ M.Sc. (Cellulose & Paper Technology) student also attended the training programme on CPCB Sponsored Training Programme on Treatment and Removal of TDS and Other Pollutants to Promote Zero Liquid Discharge in Pulp and Paper Mills.



M.Sc Cellulose & Paper Technology Students with CPPRI faculty of the Training Program

STAFF NEWS

Retirement

Name : Shri Y.C.Joshi
 Designation : S.O. (Purchase)
 Date of Superannuation : 31.3.2015

गणतंत्र दिवस समारोह

26 जनवरी 2015 को गणतंत्र दिवस के उपलक्ष में संस्थान की निदेशक महोदया डॉ. विमलेश बिष्ट ने अपने सन्देश में सभी लोगों को गणतंत्र दिवस की पावन बेला पर हार्दिक बधाई दी और कहा कि 15 अगस्त 1947 को आज़ादी मिलने के बाद और कई बार संशोधन करने के उपरान्त भारतीय संविधान को 26 जनवरी 1950 को अधिकारिक रूप से अपनाया गया। तब से 26 जनवरी को गणतंत्र दिवस के रूप में मनाया जाता है। इस दिन भारतवर्ष एक स्वतन्त्र गणराज्य बना और हमें स्वतंत्ररूप से अपने देश के विकास के लिए नीति निर्धारण और विकास की योजनाएं बनाने का सौभाग्य प्राप्त हुआ।

महोदया ने कहा कि सी.पी.पी.आर.आई में चल रही 12 वीं पंचवर्षीय योजना के अन्तर्गत लुग्दी एवं कागज से सम्बन्धित विभिन्न परियोजनाएं सी.पी.पी.आर.आई. में आरम्भ हो चुकी हैं और उन पर निरन्तर कार्य हो रहा है।

सी.पी.पी.आर.आई. ने केन्द्रीय प्रदूषण नियंत्रण बोर्ड (सी.पी.सी.बी.) को गंगा नदी की घाटी के लुग्दी एवं कागज उद्योगों में जल पुनःचक्रण और प्रदूषण की रोकथाम के लिए घोषणा पत्र तैयार करने एवं कार्यान्वयन करने में मुख्य भूमिका निभाई।

सेलुलोस और कागज प्रौद्योगिकी में एम.एससी के दो सत्र सफलतापूर्वक पूर्ण हो गए हैं एवं अधिकतम छात्र पहले ही विभिन्न मिलों में अच्छी नियुक्ति पा चुके हैं। मैं मिलों से निवेदन करती हूँ कि वे इस पाठ्यक्रम के लिए भविष्य में भी सहयोग जारी रखें। इसके साथ ही राष्ट्रभाषा हिन्दी के विषय में उल्लेख करते हुए निदेशक महोदया ने कहा कि राष्ट्रभाषा हिन्दी को कार्यालय के दैनिक कार्यों में उपयोग हेतु लगातार बढ़ावा दिया जा रहा है और संस्थान में हिन्दी में कार्य करने की स्थिति संतोषजनक है। जिसे अभी और बढ़ाया जाना आवश्यक है।

अन्त में महोदया ने सभी महान शहीदों को नमन किया और संस्थान के सभी अधिकारियों एवं कर्मचारियों के परिवार के लिए मंगल कामना की।



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We welcome suggestions & comments for further improvement of this News Bulletin.