



# ANNUAL REPORT 2024-25

**CENTRAL PULP & PAPER  
RESEARCH INSTITUTE**



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**PAPER TESTING LABORATORY AND ENVIRONMENT  
MANAGEMENT DIVISION, CENTRAL PULP AND PAPER  
RESEARCH INSTITUTE**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

**PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR, UTTAR PRADESH, INDIA**

in the field of

**TESTING**

Certificate Number: **TC-8658**

Issue Date: **19/09/2024**

Valid Until: **18/09/2026**

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity: **CENTRAL PULP AND PAPER RESEARCH INSTITUTE**

Signed for and on behalf of NABL



**N. Venkateswaran**  
Chief Executive Officer

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# ANNUAL REPORT 2024-25

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## Central Pulp & Paper Research Institute

An Autonomous Organisation Registered under Societies Act and under the Administrative Control of Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade, Government of India.

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## MESSAGE FROM THE DIRECTOR'S DESK

I take immense pride in presenting the Annual Report of the Central Pulp and Paper Research Institute (CPPRI) for the year 2024–25, which shows that the Institute has outperformed itself and has continued to advance its mission of promoting research, innovation and capacity building in the pulp, paper and allied sectors in alignment with national goals related to self sustainability, resource efficiency and value addition.



During the year 2024–25, CPPRI undertook a wide range of Research and Development initiatives including technical services, product development, testing, training and educational programs. Notably, ten new projects across diverse thematic areas were approved by the Research Steering Committee of Development Council for Pulp, Paper and Allied Industries (RSC-DCPPAI). These projects aim to provide targeted support to the industry in addressing sector-specific challenges. Additionally, five ongoing PBS projects contributed significantly to infrastructure development and institutional performance.

A key achievement of this year was the advancement of high-purity alpha pulp production from bamboo by the Physical Chemistry, Pulping and Bleaching Division. As bamboo remains India's primary source of long-fibre pulp, this work demonstrates significant potential for sustainable value-added applications, including the conversion of alpha cellulose into fluff pulp for hygiene products. A technical paper on this research has been accepted for publication in the journal namely *Advances in Bamboo Science* published by Elsevier.

The Environment Management Division continued its critical role in supporting the Central Pollution Control Board (CPCB) conducting monitoring of over 143 grossly polluting industries in the Ganga and Yamuna river basins. The Division successfully renewed its NABL accreditation and participated in multiple proficiency testing programs, reinforcing its analytical capabilities. It also contributed technically to the development of Charter 3.0 for the Indian pulp and paper industry and undertook a third-party audit.

The Biotechnology Division established a pilot-scale facility equipped with an Aerated Static Bed Bioreactor and a Stainless Steel Jacketed Reactor to support studies in biopulping, bio-deinking and enzymatic hydrolysis. Moreover, 15 lignolytic fungal strains were isolated to support advanced research in biopulping.

The Biorefinery Division also made notable progress with the development of state-of-the-art infrastructure for biomass processing and black liquor testing. Further strengthening of CPPRI's

biorefinery capabilities are under progress.

We are also proud to report that CPPRI scientists were nominated and represented the Institute on several prestigious platforms including the NITI Aayog Expert Committee on Strategy for the Development of the Bamboo Value Chain, Bureau of Indian Standards (BIS) committees, Bureau of Energy Efficiency (BEE) and CPCB committees for the formulation of Charter 3.0 etc.

In the domain of human resource development, CPPRI remained steadfast in its commitment to skill enhancement. One of the major achievements was the recruitment of regular scientific, technical and administrative manpower and thus increasing the total manpower strength from 19 to 44.

The Institute successfully conducted five training programs, including a specialized workshop on handmade packaging materials for Udyogini and supervised 19 graduate and postgraduate thesis projects.

One significant Memorandums of Understanding (MoUs) were signed during the year, expanding CPPRI's collaborations with national stakeholders and paving the way for joint research, technology development and capacity-building initiatives in the sector.

The Hindi Rajbhasha Unit also maintained its active role in successfully organizing Nagar Rajbhasha Karyanvayan Samiti (NARAKAS) meetings in September 2024 and March 2025 thereby promoting the wider implementation of Rajbhasha across the Institute's activities.

I would like to place on record my deep appreciation for the guidance and encouragement extended by Shri Amardeep Singh Bhatia, IAS, Secretary, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India and President, Council of Association(CoA) of CPPRI. His support has been instrumental in the Institute's progress.

I also express my gratitude for the guidance and professional leadership provided by Shri Sanjiv IRS, Joint Secretary, Department for Promotion of Industry and Internal Trade and Chairman, Research Advisory Committee (RAC) of CPPRI and Research Steering Committee of Development Council for Pulp, Paper and Allied Industries (RSC-DCPPAI). His leadership has greatly contributed to our success.

I sincerely acknowledge the valuable guidance and support extended by the Members of the Development Council for Pulp, Paper and Allied Industries (DCPPAI), Council of Association (CoA) of CPPRI, Research Advisory Committee (RAC) of CPPRI, and Research Steering Committee of Development Council for Pulp, Paper and Allied Industries (RSC-DCPPAI).

I also extend my thanks to the various mill associations including the Indian Paper Manufacturers Association (IPMA), Indian Newsprint Manufacturers Association (INMA), Indian Agro and Recycled Paper Mills Associations (IARPMA), Indian Recycled Paper Mills Association (IRPMA) and other regional mill associations as well as all our valued clients from the pulp, paper and allied industries for their continued support in various activities and projects executed by CPPRI. Due to the support of Clients, CPPRI earned IRG of Rs. 351.56 Lacs during the year 2024-2025.

The last year has been a promising one and through its ongoing efforts, the Institute has achieved many significant milestones. These accomplishments are a testament to the dedication and collective efforts of our Scientists, Officers, Staff members and valued collaborators. I extend my heartfelt appreciation for their unwavering commitment. As we look ahead, CPPRI remains resolute in its pursuit of excellence in research, innovation and technology dissemination with a vision to build a sustainable and globally competitive Indian Pulp and Paper Industry.

Thanks for the relentless support.

A handwritten signature in black ink, appearing to read 'Dr. Ashish Kumar'.

**Dr. Ashish Kumar**  
Director, CPPRI



## CENTRAL PULP AND PAPER RESEARCH INSTITUTE: AN INTRODUCTION

### Genesis and Evolution of CPPRI

Until the early 1970s, Research and Development (R&D) activities in the Indian pulp and paper sector remained largely neglected. During this period, most existing mills established both before and after independence relied heavily on imported conventional technologies and process equipment to utilize woody and bamboo-based raw materials. As the demand for paper and paperboard was relatively limited, there was little impetus to undertake R&D for process optimization, alternative raw materials or development of indigenous technologies. The only notable effort in this direction was undertaken by the Cellulose and Paper Branch of the Indian Council for Forestry Research & Education (formerly Forest Research Institute, Dehradun), which focused primarily on evaluating raw materials for paper manufacture.

A major transformation began in the early 1970s when the nation faced a dual challenge rapidly rising paper demand coupled with a raw material crisis. The widening gap between demand and supply necessitated the search for alternative raw materials. Supported by proactive government initiatives, this period witnessed the emergence of numerous small-scale agro-based paper units across various agricultural regions of the country.

The growing need for indigenous process technologies and scientific evaluation of alternate raw materials led to the launch of a landmark project titled "Identification of Alternate Raw Materials", jointly sponsored by UNDP (FAO) and the Government of India. This project marked the formal beginning of organized R&D efforts in the Indian pulp and paper sector. Operationalized in 1975, the project aimed at identifying viable alternate raw materials for paper and newsprint production. It also facilitated significant upgradation of R&D infrastructure through the establishment of modern laboratory and pilot plant facilities. During its course, several professionals drawn from industry and research organizations were trained in advanced countries, while international experts contributed immensely to shaping the R&D roadmap. The knowledge, expertise, and facilities developed during this period became valuable national assets.

Recognizing the importance of sustaining and institutionalizing these assets, the Government of India established a dedicated national-level institute on 11<sup>th</sup> November 1980, known as the Central Pulp & Paper Research Institute (CPPRI). Constituted as an autonomous body under the Ministry of Commerce & Industry, CPPRI was entrusted with the mission of advancing research and technological innovation in the pulp, paper, and allied industries.

Over the decades, CPPRI has evolved into a premier research organization, offering state-of-the-art laboratory and pilot-scale facilities, supported by a team of highly qualified, experienced, and dedicated scientists. The Institute undertakes comprehensive research activities covering the entire value chain from raw material assessment to process optimization and product development. With its consistent pursuit of excellence, CPPRI has carved a distinct niche for itself and today stands comparable to leading global research organizations.

## **OBJECTIVE OF THE INSTITUTE**

- To develop into a centre of excellence for providing technical & consultancy services & carrying out quality research and scientific work dedicated to pulp & paper and allied industry.
- To strive towards improving the overall technological & environmental status, global competitiveness & environmental sustainability of Indian Pulp and Paper Mills.
- Information dissemination related to latest R&D & technological developments in paper industry & impart training to mill personnel for upgradation to knowledge & skill in various aspects of paper making.

## **VISION**

- To make CPPRI a centre of Excellence with focus in the area of Technology Transfer.
- To make Indian Paper Industry sustainable and Globally competitive.

## **MISSION**

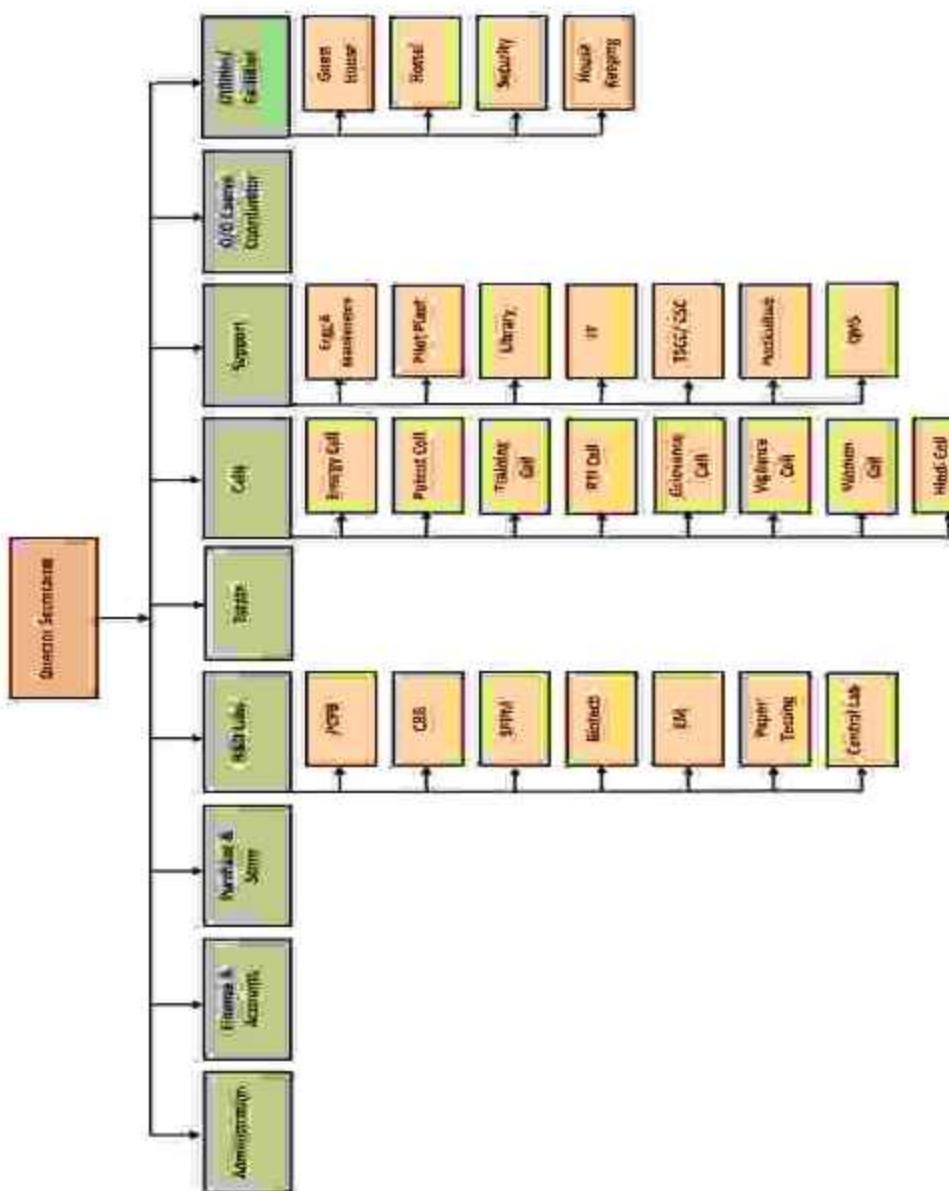
In pursuit of cleaner Production, Resource Conversation & Quality Excellence in Pulp & Paper Industry.

## **QUALITY POLICY**

CPPRI is committed to develop itself into a premier research institute, with a focus on the Pulp & Paper industry both in India and abroad. A quality management system meeting the requirements of ISO 9001:2000 has been established to realize the quality policy by achieving the quality objectives. The Management and Staff are committed to do its job "right first time....every time...." In order to provide total customer satisfaction. This commitment is an institutional dedication to improvement and customer satisfaction. CPPRI and its personnel, to achieve quality objectives in keeping with this policy, are committed to:

- Maintain a management system meeting the requirements of the Quality Management system ISO 9001:2015 and ISO/IEC/ 17025:2017 consistently.
- Maintaining a working knowledge of the quality systems involved and implementing them in our work.
- Performing all concerned activities competently in conformance with activities and maintaining impartiality in all the activities.
- Uncompromising attitude towards excellence in all the concerned activities and maintaining impartiality in all the activities.

## ORGANISATION STRUCTURE



QHSE: Quality & Health, Safety & Environment. QMS: Quality Management System. TQM: Total Quality Management. ISMS: Information Security Management System.

## **INFRASTRUCTURE**

The institute has a lush green campus and the constructed area is 103.74 Acres, which includes:

- The main building comprises of the Administrative Block & Two Laboratory Blocks.
- Pilot Plant
- Library and Documentation Centre
- Hostel Cum Guest House, etc
- Residential complex with 69 residential quarters.

The institute renders its services in various areas of pulp and paper making and caters to the needs of the paper industry through its following divisions:

- Physical Chemistry Pulping & Bleaching
- Stock Preparation and Paper Making
- Paper Testing and Energy Management
- Chemical Recovery and Biorefinery
- Biotechnology
- Environmental Management
- Library & Documentation Centre
- Engineering and Maintenance

These divisions are well equipped with state of the art equipment and facilities to carry out quality research work and render technical services to pulp, paper and allied industries.

## **MANAGEMENT**

Central Pulp and Paper is an Autonomous Organization, registered under the Societies Registration Act. The affairs of the institute and its functionalities are executed as per a duly approved Memorandum of Association (MoA), as amended with due procedure from time to time. As per the Section 6 of the MoA of CPPRI, the affairs of the institute are entrusted as required under Section 2 of the Societies Registration Act 1860 to a governing body, now referred to as the Council of Association of CPPRI.

## **COUNCIL OF ASSOCIATION (CoA)**

The Council of Association of Central Pulp and Paper Research Institute (CPPRI) is the supreme body consisting of members from Ministry of Commerce and Industry, Department of Science & Technology (DST), Council of Scientific and Industrial Research (CSIR), Indian Council of Forestry Research and Education (ICFRE), Indian Institute of Technology (IIT), Roorkee, Indian Paper



Manufacturers Association(IPMA), Indian Newsprint Manufacturer's Association (INMA), Indian Agro and Recycled Paper Mills Association (IARPMA), Indian Recycled Paper Mills Association (IRPMA) and Indian Pulp and Paper Technical Association (IPPTA) etc. The President of Council of Association of CPPRI is appointed by the Government of India. Shri Amardeep Singh Bhatia, IAS, Secretary, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India, is the present Chair of the Council.

## MEMBERS OF COUNCIL OF ASSOCIATION OF CPPRI

S. No.	Designation	Status
1.	Secretary Department for Promotion of Industry and Internal Trade (DPIIT) Ministry of Commerce and Industry, Government of India	President
2.	Joint Secretary Department for Promotion of Industry and Internal Trade (DPIIT) Ministry of Commerce and Industry, Government of India	Member
3.	Director/Deputy Secretary (IF Wing) Department for Promotion of Industry and Internal Trade (DPIIT) Ministry of Commerce and Industry, Government of India	Member
4.	Chairman Development Council for Pulp, Paper and Allied Industries, Government of India	Member
5.	Representative of Department of Science and Technology (DST) Ministry of Science and Technology, Government of India	Member
6.	Representative of Council of Scientific and Industrial Research(CSIR) Council of Scientific and Industrial Research(CSIR), New Delhi	Member
7.	Representative of IIT Roorkee (Saharanpur Campus) Department of Paper Technology, IIT Roorkee (Saharanpur Campus), Saharanpur	Member
8.	Representative of Indian Council of Forestry (ICFRE) Indian Council of Forestry Research and Education, Dehradun, Uttarakhand	Member
9.	Head of the Department, Center for Rural Development and Technology, Indian Institute of Technology, Delhi	Member

10	Head of Environmental Engineering under Department of Civil engineering, Indian Institute of Technology, Kanpur	Member
11	President of Indian Paper Manufacturers Association (IPMA) or his representative Indian Paper Manufacturers Association (IPMA), New Delhi	Member
12	President of Indian Newsprint Manufacturers Association or his representative Indian Newsprint Manufacturers Association (INMA), New Delhi	Member
13	President of Indian Agro and Recycled Paper Mills Association (IARPMA) or his representative	Member
14	President of Indian Recycled Paper Mills Association (IRPMA) or his representative	Member
15	President of Indian Pulp and Paper Technical Association (IPPTA) or his representative Indian Pulp and Paper Technical Association	Member
16	President of Paper Machinery Manufacturers Wires & Fabriks (S.A.) Limited or his	Member
17	Director Central Pulp & Paper Research Institute, Saharanpur	MEMBER SECRETARY

## RESEARCH ADVISORY COMMITTEE (RAC)

The Research Advisory Committee (RAC) of Central Pulp & Paper Research Institute (CPPRI) comprises of prominent scientists and technologists and also representatives from Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), Indian Council of Forestry Research and Education (ICFRE), Indian Institute of Technology (IIT), Roorkee etc. The RAC monitors the progress of various projects carried out by the institute under Project Based Support of DPIIT (Formerly Five-Year plan Projects). Shri Sanjiv, IRS, Joint Secretary, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India, is the Chairman of RAC at present. The present composition of the RAC is placed below:-



## MEMBERS OF RESEARCH ADVISORY COMMITTEE OF CPPRI

S. No.	Designation	Status
1.	Additional Secretary/Joint Secretary(Incharge Paper),	Chairmen
2.	Director/Deputy Secretary IF Wing (DPIIT) Department for Promotion of Industry and Internal Trade (DPIIT) Ministry of Commerce and Industry, Government of India	Member
3.	Director/Senior Development Officer/Deputy Secretary(Paper), Department for Promotion of Industry and Internal Trade (DPIIT) Ministry of Commerce and Industry, Government of India	Member
4.	Representative of Department of Science and Technology Department of Science and Technology, New Delhi	Member
5.	Head Cellulose and Paper Branch, Forest Research	Member
6.	Head Department of Paper Technology(DPT), IIT-Roorkee (Saharanpur Campus), Saharanpur	Member
7.	Member Secretary/ Representative Central Pollution Control Board, Delhi	Member
8.	Centre Head CSIR-National Environmental Engineering Research Institute (NEERI), New Delhi	Member
9.	Director/Representative National Institute of Hydrology, Roorkee	Member
10.	Head/Representative CRDT, IIT(Delhi), New Delhi	Member

11.	President or Representative Indian Paper Manufacturers Association (IPMA), New Delhi	Member
12.	President or Representative Indian Agro and Recycled Paper Mills Association(IARPMA), New Delhi	Member
13.	President or Representative Indian Recycled Paper Mills Association (IRPMA), Delhi	Member
14.	President or Representative Indian Newsprint Manufacturers Association(INMA), New Delhi	Member
15.	Director/Director Incharge, CPPRI Central Pulp and Paper Research Institute, Saharanpur	Member Secretary

## STAFF

As on 31st March 2025, CPPRI's core team consisted of 26 scientific staff, 13 Technical Staff and 05 Administrative and Finance Staff including the Director.

Team CPPRI is committed to providing quality services, support and assistance to Pulp, Paper & Allied Industries. The scientific staff is highly qualified and has vast experience in various areas of paper making such as Raw Material Preparation, Pulping and Bleaching, Stock Preparation and Paper Making, Paper Testing, Chemical Recovery, Energy Conservation, Environmental Management, Biotechnology, Product Development, Quality Control, Policy Matters etc. The list of permanent staff along with qualifications is annexed with this report.



## INDIAN PAPER INDUSTRY - AN OVERVIEW 2024-25

Paper is one of the most environmentally sustainable products as it is biodegradable, recyclable and is produced from sources which are renewable and sustainable. Paper can be recycled up to 6-7 times, making it one of the most recycled products in the world. The Indian Paper Industry has been closely associated with the national objectives of Literacy, Greening India, Rural Employment, and usage of Sustainable Resources, besides meeting paper needs of the Indian consumers. Per capita paper consumption in India is currently around 16 kg, while the global average is 57 kg (200+ kg for developed countries). Per capita paper consumption in India is projected to increase over time with increasing level of literacy, higher growth of organised retail and need for packaging, and overall economic development. The demand for paper in India is growing at 6-7% per annum, making it one of the fastest growing markets in the world. India's share in world production of paper is about 5% (5th largest producer in the world), with estimated production of around 22.59 million tonnes per annum of paper, paperboard and newsprint in 2024-25 (as per IPMA) and 24.58 million tonnes in 2024-25 (as per IARPMA). The annual turnover of India's Paper Industry is estimated to be over INR 1,00,000 crores, with around INR 5,000 crores contribution to the Exchequer. The industry provides direct employment to 500,000 persons, and indirectly to around 1.5 million. The industry has strong backward linkages with the farming community and has agroforestry roots, with around 20% of the total production of paper using wood as raw material.

### Classification of Indian Paper Industry

#### Basis : Raw Material

The Indian Paper Industry can be classified in terms of raw material used into:

- Wood / Bamboo based (18-20%)
- Agro-Residue (Bagasse / Wheat Straw) based (5-6 %)
- Recovered Paper / Recycled Fibre (RCF) based (74-76%)

#### Basis : Finished / End Products

In terms of finished / end products into

- Writing & Printing (W&P) Paper (23%)
- Packaging Paper / Paperboard (65%)
- Newsprint (5%)
- Specialty Paper (Tissue Paper, Security Paper, etc.) (4%)

### Growth of Various Paper Grades 2023-24 v/s 2024-25

Indian Market Size in 2023-24 and 2024-25 and Growth Rate of major paper grades is summarized as under:

**Indian Market Size in 2023-24 and 2024-25 and Growth Rate (%)**

Paper Grade	2023-24	2024-25	
Newsprint	1.178	1.133	-2.33
Writing & Printing Paper	5.325	5.468	3.05
Packaging Paper / Paperboard	14.931	15.539	7.68
Cup Stock	0.358	0.388	8.50
MG Variety / Poster	0.281	0.281	0.33
Tissue	0.316	0.372	12.88
Other Paper/Paperboard	0.650	0.657	1.00
Total	23.039	23.838	5.97

As indicated, India's paperboard and packaging segment, contributing around 65% of the industry, is growing at 7-8% per annum. The tissue segment, driven by health and hygiene awareness, is growing the most @12-13%, followed by Cupstock @ 8-9%. The trends indicate a structural shift towards packaging and hygiene-related grades paper. With India's FMCG market projected to grow @7% demand for paper and packaging is set to rise further.

Demand for writing and printing paper grew from 5.325 million tonnes to 5.468 million tonnes, marking a about 3% growth rate per annum. As such this segment remains stable, supported by educational and office use, with copier paper leading the category.

The packaging paper and paperboard segment recorded impressive growth, driven primarily by the expansion of the e-commerce, FMCG, and food delivery sectors, as well as a broader shift away from plastic packaging. The growth in cup stock reflects the food industry's transition to paper-based alternatives in response to sustainability mandates. Meanwhile, the niche segments of MG variety and poster paper experienced marginal growth, indicating stable demand in decorative and promotional applications. Tissue consumption recorded remarkable growth, reflecting heightened hygiene awareness and increased adoption of disposable sanitary products in the post-pandemic period. As indicated, the overall growth rate for the year is about 6% per annum. The Indian paper industry therefore appears well-positioned to meet the evolving needs of a growing and diversifying domestic market, supported by innovation, sustainability, and rising consumer demand.



## Key Investment Trends in the Indian Paper Sector

### Modernization & Technology Upgrades

- Pulp & Paper mills in recent times have made substantial investment in automation, energy-efficient systems and effluent treatment technologies.
- As per the Industry sources over ₹25,000 crore has been invested in modernization over the past decade as per the Industry.

### Sustainable Manufacturing

- About 70-75 % of India's paper production now relies on recovered paper.
- Investments are being directed at circular economy models, including waste paper recovery infrastructure and eco-friendly packaging solutions.

### Packaging Boom

- The increase in e-commerce activities has driven massive demand for kraft paper, corrugated boxes, and specialty boards.
- Mills are investing in high-efficiency packaging lines to meet this demand, with packaging paper expected to grow at 8.2% CAGR.
- A few mills have added molded table ware from agro pulp in their product portfolio.

### Foreign Direct Investment (FDI)

- FDI inflows in paper and pulp (including paper products) reached ₹10,127 crore (~USD 1.74 billion) between April 2000 and December 2024.
- Global players like SIG (Switzerland) are investing in Indian facilities, with ₹880 crore committed between 2023–25.

### Capacity Expansion

- As per reports, over 1 million tonnes of new capacity is being added, with emphasis on de-bottlenecking and replacing old technology rather than just scaling up.
- As per industry estimates Indian Paper Industry is projected to grow from USD 14.75 billion in 2025 to USD 23.22 billion by 2030, at a CAGR of 9.5%.

A few recently reported new projects, technological advancements, and process upgradation or modernization initiatives that are either underway or completed are listed below:

- Government of Maharashtra has given approval to Asia Pulp and Paper, Indonesia's one of the largest paper making company to set up a major paper manufacturing facility of 1.2 million tonnes per annum at Raigad, Maharashtra
- Kuantum Papers Limited., Sialkot, Punjab undergoing recovery boiler upgrade to improve overall performance efficiency
- The Andhra Paper Limited., Rajahmundry, Andhra Pradesh is planning of setting up a Tissues Paper Machine

- NR Agarwal Industries Limited, Gujarat installed a single largest packaging board machine in India of capacity 900 TPD
- Satia Industries Limited, Muktsar, Punjab is investing INR 4-4.5 billion to upgrade its PM-3 paper machine, recovery boiler, and general maintenance which is expected to add 18,000-20,000 MTPA to its existing capacity.
- Orient Paper Industries, Amlai, Madhya Pradesh has undertaken a capacity expansion and efficiency improvements project for adding 8,500 tons per annum (TPA) to its existing 100,000 TPA paper production capacity.
- Andhra Paper Limited, Rajahmundry, Andhra Pradesh is reported to be upgrading and rebuilding Paper Machine-3 to increase production by 60 TPA
- Andhra Paper Limited, Rajahmundry, Andhra Pradesh in principle propose to install a 175,000 TPA newpaper board machine at an estimated investment of Rs. 175,000 Crore
- ITC-PSPD, Bhadrachalam, Telangana successfully completed its capacity augmentation project to increase its décor paper production capacity by 20,000 tonne per annum.
- Pakka Limited, Ayodhya, Uttar Pradesh is setting up a world's first compostable packaging facility in Ayodhya. The group is also setting up a plant in Guatemala to cater North American market.

### Recent Technological Trends in Indian Paper Industry

Today, the Indian paper industry is a sustainable industry. The advance technology adoption by Indian paper mills specially the large integrated pulp and paper mills in various areas of paper making have increased significantly in recent years with focus on resource & process efficiency and energy efficiency, improved product quality as well as optimizing production cost. This has resulted in reduction in fresh water consumption, waste water discharge, pollution load, improved profitability etc.

The paper industry as a whole is undertaking process refinement, upgradation, and optimization initiatives to address rising energy costs, enhance competitiveness and sustainability, and reduce its carbon footprint. According to reported estimates, over ₹25,000 crore has been invested by the Indian paper industry over the past 5–7 years in process upgradation, technological advancements, and clean green technologies. These initiatives have led to improved compliance with regulatory norms and the achievement of benchmark levels in water, steam, and power consumption. Indian Paper Industry has agro forestry roots and strong backward linkage with farmers for sourcing woody raw material. As per estimate around 90% of the wood requirement of wood based paper mills is met from industry supported agro / farm forestry. All wood based paper mills claim to be "wood positive," meaning they plant more trees than they harvest.

## **Major Challenges / Threats before Indian Paper Industry**

Despite its promising growth perspective, the Indian paper industry faces several operational and policy issues & challenges that could impact its competitiveness and sustainability, if not addressed timely and strategically. Some of the issue are summarized as under :

### **Raw Material Availability**

Substantial amounts of resources have been spent by the Paper Industry on plantation R&D, production of high-quality clonal saplings, technical extension services to improve agro forestry / farm forestry services, hand holding of marginal farmers over a gestation period of 4-5 years. This has helped the wood based paper industry to address raw material availability issue to a certain extent. However this sector has been advocating since long leasing out degraded forest land to grow industrial plantations so as to meet the raw material requirements. However due to existing regulatory frame work and policy issues the matter is still unresolved.

The industry's reliance on imported wood chips and waste paper, coupled with a low domestic waste paper recovery rate impacts the paper industry. Globally, an average of 58% of paper wastepaper is recycled, with developed nations achieving rates as high as 80%. In contrast, India remains heavily reliant on wastepaper imports, despite a significant portion of this material being discarded domestically. While newspaper and packaging paper have relatively high collection rates of 70% and 60%, respectively, virgin paper recovery lags at just 40%. A major challenge lies in the declining quality of domestically available wastepaper. The intensive use and reuse of paper in India have degraded its quality, making it less suitable for recycling and increasing the industry's dependence on imports to meet stringent quality standards. To address this, efforts must focus on diverting post-consumer paper from the waste stream back into industrial use. Enhancing wastepaper circularity and improving recovery rates will not only reduce imports but also alleviate the environmental burden on the ecosystem, fostering a more sustainable and self-reliant recycling industry.

India currently imports around 8–9 million metric tons of waste paper annually, primarily from the U.S., Europe, and the Middle East. Any global disruption in recycling policies or freight logistics adversely impacts the paper production cost. Further due to lack of a structured domestic waste paper collection and segregation system, waste paper recovery rate in India is considerably low.

The major segment of Industry is recycled fiber based paper mills (~71- 75% of total paper production). Since this sector is increasingly dependent on imported waste paper, price fluctuation in the cost of waste paper in the international market adversely affect the profitability of these mills. There is a need for suitable policy interventions to improve collection of indigenous waste paper to

reduce dependency on imported waste paper.

## Rising Imports

Another serious threat comes from cheap imports, especially coated and uncoated paper from countries like China, Indonesia, and South Korea etc under various free trade agreements (FTAs), as well as other bilateral and multilateral trade agreements. These countries benefit from strong government subsidies and lower input costs, which help in exporting the paper to India at prices below production cost of Indian Paper Mills. As a result, Indian Paper Industry specially newsprint, copier and specialty paper board are being adversely impacted.

As per Directorate General of Commercial Intelligence & Statistics (DGCI S) data the major paper imports viz (HS Code 4801, 4802, 4803, 4804, 4805, 4808 & 4810) in the country was around 27.78 lakh tonnes during 2024-25. The details are as under:

Exports & Imports of Paper, Paperboard & Newsprint 2024-25 (Thousands Tonnes)				
HS Code	Product Description	Exports	Imports	
4801	Newsprint	7.3	723.1	
4802	Uncoated Paper and Paperboard for Writing, Printing or Other Graphic Work	409.8	296.9	
4803	Toilet or Facial Tissue Stock, Towel or Napkin Stock	26.6	22.9	
4804	Uncoated Kraft Paper & Paperboard	178.9	437.7	
4805	Other Uncoated Paper & Paperboard	280.0	225.5	
4808	Paper & Paperboard, Corrugated, Creped, Crinkled, Embossed or Perforated	3.6	8.4	
4810	Paper & Paperboard Coated on One / Both Sides	623.3	1,063.9	
	<b>Total</b>	<b>1,529.5</b>	<b>2,778.4</b>	



The major countries from which the paper and paper board was imported include China, ASEAN & S. Korea which constituted around 50 % of the total imports as indicated below:

Year	India's Imports of Paper and Paperboard							
	Thousand Tonnes				INR (Crores)			
	Total	China	ASEAN	S Korea	Total	China	ASEAN	S Korea
2022-23	1,436.5	341.0	266.5	81.7	12,531	3,430	2,267	779
2023-24	1,929.1	411.4	514.1	103.4	13,248	3,455	3,122	811
2024-25	2,055.3	547.3	415.1	99.4	14,629	4,298	2,789	836
Y-o-YGrowth (%)	6.54	33.03	-19.26	-3.87	10.42	24.40	-10.67	3.08
14Year CAGR (%)	10.09	9.40	21.00	21.92	10.96	14.11	22.70	26.41

**Note: Data includes HS Codes 4802, 4803, 4804, 4805, 4808 & 4810**

As indicated above among India exports of various paper grades, Paper &Paperboard Coated on One/Both Sides ( HSC : 4810), Uncoated Paper & Paperboard for Writing, Printing or Other Graphic Work ( HSC :4802) Other Uncoated Paper & Paper Board (HSC :4805), Uncoated Kraft Paper & Paperboard ( HSC : 4804) were the major paper grades exported during 2024-25 in terms of volume

Among the major paper grade imports included Paper & Paperboard Coated on One/ Both Side ( HSC :4810) Newsprint (HSC :4801) Uncoated Kraft Paper & Paperboard ( HSC :4804), Uncoated Paper & Paper board for Writing, Printing or Other Graphic Work( HSC :4802).

India's paper and paperboard industry has witnessed a steady rise in imports over the past 14 years, posing a growing challenge to domestic manufacturers. This trend is particularly pronounced in segments covered under HS Codes 4802, 4803, 4804, 4805, 4808, and 4810, which include uncoated writing and printing paper, toilet tissue, kraft paper, multi-ply grades, and coated varieties rise despite sufficient domestic production capacity. This growth in imports, outstripping the domestic production rate, has led to the underutilization of domestic installed capacity within the country.

Historically, the primary markets for China and Indonesia have been the USA and the EU. With imposition of protective measures such as anti-dumping and anti-subsidy tariff on paper and paperboard imports in these countries to shield domestic industries as well as slowdown in both developed and export-dependent economies, including the ASEAN countries, there has been a significant surplus of paper and paperboard production. These countries are leveraging India's minimal to low import duty rates, making India an attractive destination for offloading their surplus inventory. Indonesian paper mills benefit from guaranteed access to inexpensive wood fiber, bolstered by substantial subsidies for the plantation sector. The trend of increased imports to India

is projected to continue due to the economic downturn in China and the substantial new paperboard production capacities being developed in both China and Indonesia. Moreover, trade restrictions and import duties imposed by the USA and the EU to protect their own markets may further contribute to this trend. As a result the surge in paper and paperboard imports is severely undermining the economic stability of many Indian paper mills, in addition to causing significant revenue losses for the government.

Besides the overall detrimental effect of duty-free imports on the domestic paper industry, most small and medium-sized paper mills in India are becoming financially unviable. This situation is endangering the livelihoods of numerous families reliant on wastepaper collection from households, markets, and other places, alongside thousands of farmers engaged in agro forestry or farm forestry who supply agro residues and wood to paper mills, and many individuals involved in the paper supply chain as well as stakeholders.

In recent past anti dumping duty on décor paper which has partially provided a relief to domestic industry

### **Environmental Standards & Regulatory Compliance**

Recently Ministry of Environment, Forests & Climate Change has notified revised / new stringent environmental norms for Pulp & Paper Industry under the Environment (Protection) Seventh Amendment Rules, 2025 which include norms for Fresh Water Consumption & Waste Water Discharge as well as norms for various pollution parameters as under:

<b>Mill Category</b>	<b>Fresh Water Consumption m<sup>3</sup>/t paper</b>	<b>Waste Water Discharge m<sup>3</sup>/t paper</b>
Pulp &Paper Mills Producing Bleached Grades of Chemical Pulp, Papers& Paper Boards	50	40
Pulp &Paper Mills Producing Unbleached Grades of Chemical Pulp, Papers& Paper Boards	25	20
Recycled Fiber & Market Pulp Based Paper Mills Producing Bleached Grades ,Papers, Paper Boards and Newsprint	15	10
Recycled Fiber & Market Pulp Based Paper Mills Producing Unbleached Grades ,Papers, Paper Boards and Newsprint	10	06
Recycled Fiber and Market Pulp based Specialty Paper Mills	50	10

Parameters	Discharge Norms	
	Treated Effluent from Pulp & Paper Mills Producing Product from Chemical Pulp	Treated Effluent from Pulp & Paper Mills Producing Product from Recycled Fiber Based Pulp & Market Pulp
pH	6.5-8.5	6.5-8.5
Total Suspended Solids , mg/l	50	50
Biochemical Oxygen Demand ( BOD) , 3 days @ 27°C , mg/l	20	20
Chemical Oxygen Demand (COD), mg/l	250	250
Total Dissolved Solids (TDS) , mg/l	2100	2100
Color ,PCU	350	350
Adsorbable Organic Halogens( AOX) , mg/l	10	5
Sodium Absorption Ratio (SAR)	10	08

These norms will be effective Pan India and the pulp and paper mills have to accordingly adopt appropriate technologies and strategies to reduce their fresh water consumption and waste water discharge as well as achieve the discharge norms.

## Water Conservation

In context of the new environmental norms, the Indian Paper Industry needs to integrate the strategies on water demand management, enhancing water use efficiency, water conservation, recycle and reuse, etc., to reduce fresh water consumption.

## Energy consumption

Despite efforts to adopt renewable energy sources, the sector still heavily relies on coal and fossil fuels, making it challenging to reduce its carbon footprint. This high emission level exacerbates climate change, hindering progress towards India's net-zero goals to be achieved by 2070. As paper production is projected to increase, significant efforts must be made to reduce the emission intensity of production.

## Disparity in Production v/s Demand

The over supply of paper due to unplanned capacity addition in Indian Paper Industry and reduction of exports has adversely impacted the profit margin of the paper mills. The industry for last few years has been facing fluctuating prices, uncertain demand projection and global uncertainties.

### Newsprint Industry

As per Indian Newsprint Mills Association (INMA) currently there are around 128 registered news print mills with total installed capacity of 2.2 million tones Out of these 123 newsprint mills, only 39 newsprint mills are operational at present. The domestic newsprint industry is facing stiff challenges from cheap imports of newsprint with concessional duty which is the major reason for closure reduction of capacity utilization in news print mills to a level of just 35 % in the country. Therefore, despite having surplus domestic installed capacity of newsprint i.e. 2.2 million tons against consumption of 1.3 million tones, INMA & the newsprint industry has been advocating for a suitable policy intervention to arrest cheap imports. In 2023-24 the newsprint import stood at 65% of total consumption.

A comparative newsprint import scenario (overall & category wise (Glazed & Others) is summarized as under in Table below respectively in terms INR & USD of FY 2024-25.

#### Newsprint Imports Scenario in Last 5 years

Financial Year	Value in Lakhs INR	Value in Million USD
2020-21	219906.00	294.09
2021-22	256721.42	344.74
2022-23	420287.89	521.39
2023-24	352146.00	425.50
2024-25	349125.00	413.96

Source :<https://tradestat.commerce.gov.in>

#### Newsprint Import Scenario (Category Wise) in Last 5 Years



(I) Glazed Newsprint Import Scenario (HS Code : 48010010)

<b>Financial Year</b>	<b>Glazed Newsprint (HS Code : 48010010 )</b>	
	<b>Value in Lakhs INR</b>	<b>Value in Million USD</b>
2020-21	4808.45	6.38
2021-22	3730.63	5.02
2022-23	10927.66	13.68
2023-24	5641.57	6.82
2024-25	7720.00	9.15

Source :<https://tradestat.commerce.gov.in>

(II) Other Newsprint (HS Code : 48010090)

<b>Financial Year</b>	<b>Other Newsprint (HS Code : 48010090 &amp; 10)</b>	
	<b>Value in Lakhs INR</b>	<b>Value in Million USD</b>
2020-21	215098.11	287.71
2021-22	252990.79	339.72
2022-23	409360.23	507.71
2023-24	346504.43	418.67
2024-25	341405.00	404.81

Source :<https://tradestat.commerce.gov.in>

## Recent Policy Intervention / Regulations

### Revision Criteria for Granting Eco Mark for Paper & Paper Product

In context of the issues raised by Indian Paper Industry & Mill Associations regarding MoEFCC Ecomark Rules 2024 a committee has been constituted by CPCB for developing technical criteria under Ecomark rules for two product categories namely Paper and Wood substitute in pursuance of section 10 of Eco Mark Rules 2024 with the objective:

- Review and development of criteria to grant Ecomark for Paper Products
- Development of the process of verification of paper products for grant of Ecomark

## Extended Producer Responsibility

The Ministry of Environment, Forests & Climate Change vide its notification dated 6.12.2024 introduced draft rules in order to introduce "extended producer responsibility" for ensuring environmentally sound management of post-consumer paper including paper board, glass, metal (excluding non-ferrous metal based) packaging and sanitary products and to promote circular economy through reuse, recovery and recycling, thereby creating new opportunities for economic activities, green jobs and innovations. Whereas the EPR on packaging and sanitary products will promote generation of wealth from waste resource conservation through reducing extraction of virgin resources, optimum use of materials as well as improve the quality of environment across the country.

## Way Forward

The government's focus on education and literacy, along with the expansion of organized retail and rising demand for higher-quality paper, are key drivers for writing and printing paper. Meanwhile, the growing need for superior packaging in FMCG, textiles, pharmaceuticals, and other sectors driven by booming e-commerce, rising healthcare spending, increasing demand for over-the-counter medicines and ready to-eat foods, and the ban on single-use plastic is expected to continue to fuel demand for paperboard and packaging paper. This growing demand presents an opportunity for the paper and packaging sector to enhance raw material sourcing, modernize mills, and integrate sustainable practices.

The way forward includes industry efforts on cost optimization and operational efficiency. There is a need to focus on the domestic market through competitive pricing and innovation, along with the adoption of sustainable practices including increased utilization of domestic waste paper and energy efficient technologies. By implementing a multi-pronged strategy that prioritizes domestic needs, sustainability, innovation and strategic partnership, the Indian Paper industry can



successfully navigate the current challenges and emerging market uncertainties.

The Indian Pulp and Paper industry holds a promising outlook with significant opportunities for growth and innovation to meet domestic needs. From expanding product lines to integrating advanced technologies, mills have multiple avenues for development. Sustainability, efficiency, and quality will be key drivers in unlocking these opportunities and propelling the industry forward. However, challenges such as high raw material costs, supply chain disruptions, and market fragmentation need to be addressed on priority.

*References: Department of Industrial Policy and Promotion /Ministry of Commerce & Industry Website, CPPRI Statistical Cell, Indian Paper Manufacturers Association (IPMA), Indian Agro & Recycled Paper Mill Association (IARPMA), Indian Newsprint Mills Association (INMA), Media Reports, Press Releases, Paper Mart, In Paper International, Pulp & Paper Times etc.*

## MAJOR ACHIEVEMENTS

### Renewal of ISO 9001: 2015 Certification

Based on assessment done on 24.03.2025 with respect to requirements of ISO 9001: 2015 by BSCIC auditors, ISO 9001: 2015 Certification of CPPRI was renewed for the year 2025-2026.

### Renewal of NABL Accreditation

NABL approved the renewal of accreditation of Paper Testing Laboratory and Environment Management Division at CPPRI Saharanpur for the period September 19, 2024 to September 18, 2026 based on assessment done during August 31, 2024 to September 01, 2024 in accordance with ISO/IEC 17025:2017 in the disciplines of Chemical and Mechanical testing as per the scope recommended by the assessment team.

### Production of high-purity alpha pulp for conversion into hygiene products by PCPB Division

The Bamboo is the only long fibre source of pulp production in India. This property of bamboo makes it a potential source of raw material for many value added products. Fluff pulp for Hygiene products is one of among those. The availability of Bamboo as an agricultural crop is well promoted under the National Bamboo Mission of Government of India. CPPRI Saharanpur is extensively working on cultivation of bamboo, production of various grades pulp of bamboo and conversion of pulp into high value products. Production of high alpha pulp into dissolving pulp followed by viscose rayon production was studied during previous years and now conversion of high purity alpha pulp into fluff for various hygiene products is carried out. The pulp yield of around 40% high purity alpha cellulose from bamboo after bleaching has alpha cellulose 95%, brightness 88% ISO and other properties which make it suitable for conversion into fluff pulp.





A technical paper on Preparation and Characterization of Fluff From Bamboo as Source of Fibre for the Production of Hygiene Products was prepared and accepted for publication in International Journal of Elsevier "Advances in Bamboo Science"

### **NABL, PT Exercises by Environment Management Division**

- Environmental Management Division assisted Central Pollution Control Board (CPCB) as third party in monitoring the environmental status of over 143 Grossly Polluting Industries (GPI) located in Ganga River Basin and in Yamuna River Basin of Uttar Pradesh, Uttarakhand and Haryana.
- Environmental Management Division successfully participated in audit for renewal of NABL accreditation in two groups viz. Pollution & Environment and Atmospheric Pollution under chemical discipline of testing field in accordance with ISO/IEC 17025:2017 for wastewater pollution parameters (pH, TSS, TDS, COD, BOD, Color, Na, K, Ca, Mg, Oil & Grease and Hardness), ambient air quality parameters (PM10, PM2.5, SO<sub>2</sub> & NO<sub>2</sub>) and stack emissions quality parameters (SPM, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>2</sub>, CO<sub>2</sub>, CO and H<sub>2</sub>S).
- As per 2 years Proficiency Testing (PT) Plan submitted to NABL, Environment Management Division successfully participated in 4 PT exercises during 2024-25 and achieved a satisfactory 7 score as per NABL requirements in accordance with ISO/IEC 17025: 2017.
  - (a) Discipline: Chemical & Group: Water (Ground Water/Surface Water / Drinking Water), Parameters: Heavy Metals (Hg, Cd, Cr, As, Pb, Fe, Ni, Zn, Ca, Mg), Cl, Hardness, Total Alkalinity, pH, Color, TDS.
  - (b) Discipline: Chemical & Group: Pollution & Environment (Waste Water) Parameters: pH, TSS, TDS, COD, BOD, Color, Oil & Grease, Na, K, Ca, Mg, Hardness, Alkalinity, Total Solids, Fixed Solids, Volatile Solids, MLSS, SAR
  - (c) Discipline: Chemical Group: Atmospheric Pollution (Ambient Air) Parameters: PM10, PM2.5 (Qualitative & Quantitative)
  - (d) Discipline: Chemical Group: Atmospheric Pollution (Stack Emission) Parameters: Particulate Matter (Qualitative & Quantitative)



*Environmental Management Division Participating in PT exercise  
for Ambient Air & Stack Emission*

- Participated successfully in ILC exercise initiated by Natural Resource Bio-chem Pvt. Limited, Gorakhpur(U.P.).
- Environment Management Div of CPPRI was associated as technical institution with CPCB to prepare Charter 3.0 for Indian Pulp & Paper Industries in Ganga River Basin.
- Updation of the data related to inventory of Pulp & Paper Mills in the Uttarakhand clusters ,Tamil nadu & Karnataka State, study of imports and export trends and related developments in domestic paper industry was carried out
- A Third-Party Audit of Proactive Disclosure under the RTI Act, 2005 in accordance with DOPT OM No.1/6/2011-IR dated 5th Nov 2019 was successfully completed in June 2024.
- Successful completion of activities Carried out under Special Campaign 4.0 & Swacchta Hi Seva (SHS) Campaign.

### **Establishment of Pilot-Scale Facilities for Bio-processing by Biotechnology Division**

A pilot plant-scale facility has been established to support experimental research in Bio-pulping, Bio-Deinking, and Enzymatic Hydrolysis of lingo-cellulosic materials. The facility has been equipped with an Aerated Static Bed Bioreactor with an integrated pre-mixer and a Stainless-Steel Jacketed Reactor, both of which have been successfully commissioned and installed. These systems will enable scale-up and validation of biotechnological processes developed at the laboratory level.



*Pilot Plant-Scale Facility (Biotechnology Division)*

- I) Designing and commissioning of Aerated Static Bed Reactor - A customized Aerated Static Bed Reactor integrated with a pre-mixer has been designed specifically for bio-pulping applications. This reactor system aims to enhance oxygen diffusion and uniform substrate mixing, thereby optimizing microbial activity during the bio-pulping of lingo-cellulosic materials.
- II) Designing and commissioning of Stainless Steel (SS) Jacketed Reactor for Enzymatic Hydrolysis - A Stainless Steel (SS) Jacketed Reactor has been designed to facilitate controlled enzymatic hydrolysis of various lingo-cellulosic raw materials. The reactor allows for precise temperature regulation and agitation, essential for the effective breakdown of complex carbohydrates into fermentable sugars.

**Isolation of Lignolytic Fungal Strains for Bio-pulping Studies** - A total of 15 Lignolytic fungal strains have been successfully isolated through selective screening processes. These strains will be employed in upcoming studies related to fungal-mediated bio-pulping and degradation of lignin-rich substrates.

### **Development of State of the Art Facilities for Process and testing of Black liquor and fibrous Raw materials by CR and Bio-refinery Division**

Under the PBS project state of art infrastructure for processing of biomass for bio-refinery applications and testing of black liquor was developed. The list of various equipment and other facilities is mentioned in Infrastructure developments.

### **Nomination of CPPRI Scientist in Committee of NITI Ayog**

One of the Scientist Dr. Priti Shihhare Lal, was nominated as expert for a committee being constituted by NITI Ayog, New Delhi vide Office Memorandum Dated 17<sup>th</sup> May 2024 on Constitution of Expert Committee to review the Draft Techno-Commercial Report Titled "Strategy for the Development of Bamboo Value Chain – Towards Sustainability" among 14 members overall from

different research institutes and organizations in India.

### **MoU Signed**

A MoU signed with National Environmental Engineering Research Institute (NEERI), CSIR, Nagpur signed on May 01, 2024.

### **Training/ Skill Development**

Five training programs were organized during the year under RSC-DCPPAI project on continuing on education of technical personal in pulp and paper industry.

- I) Graduate and Post-Graduate Thesis Supervision - A total of 19 graduate and postgraduate trainee students successfully completed their thesis research work under the Biotechnology Division.



*Certificate Distribution Ceremony for Trainee Students*

### **Training programme on “Production of Handmade packaging material”: NGO-Udyogini, Madhya Pradesh**

A five-day training programme on “Production of Handmade Packaging Material” was organized by PCPB division from September 23 to 27, 2024. The programme was attended by five participants from Udyogini, in packaging material production.



*Trainees from Udyogini*

### **Research Paper Published**

Total 07 Research Papers were published in various journals during the year 2024-2025.

### **Reports Prepared**

More than 200 reports were prepared during the year 2024-2025.

### **Infrastructure Development**

**Pilot plant facility** created to facilitate various Biotechnology-related large-scale experiments.



*Pilot Plant Facility (Biotechnology Division)*

- Aerated Static Bed Reactor integrated with a pre-mixer commissioned and installed at pilot plant facility.



*Aerated Static Bed Reactor (Left); and Pre Mixer (Right)*

- Stainless Steel (SS) Jacketed Reactor commissioned and installed at pilot plant facility to facilitate controlled enzymatic hydrolysis of various lingo-cellulosic raw materials.



*Stainless Steel (SS) Jacketed Reactor*

- Installation of Agilent cary-60 Ultra-violet spectrophotometer in Central Instrumentation Laboratory which is being utilized for the quantification of Cr (VI) in food packaging paper samples.



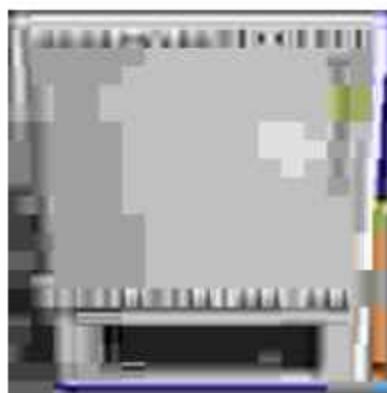
*Ultra-violet spectrophotometer*



*Pilot Causticizer*



*Millipore water  
purification system*



*Muffle Furnace*



*Chiller*



*Biomass Chips Classifier*



*Biomass Dust Machine*



*Water baths*



*Flame Photometer*



*GPC*



*Bio Shaker*



*Hardening Chambers and Solar Panel*



*Hydra Pulper*

## **Award Received**

Dr. Priti Shivhare Lal has received the Award for best paper presentation in IPPTA seminar for a presentation paper on Use of Rice Straw for Sustainable Packaging Materials (Molded Products, Paper and Board) Production, held at Sambhajinagar Maharashtra in November 2024.

## **Technical and Consultancy Services**

Technical and consultancy services were extended to various pulp and paper mills, allied industries, as well as technology and chemical suppliers. These services encompassed evaluation of raw materials, pulp and paper samples, pulping additives, deinking and sizing chemicals, and stickies control agents. The scope also included assessment of the suitability of newer grades of imported

waste paper, characterization and analysis of fibrous and non-fibrous raw materials, and examination of environmental samples. In addition, support was provided in process troubleshooting, adequacy assessment, performance evaluation of process operations, effluent treatment systems, and pollution control equipment. These activities collectively contributed to an internal revenue generation of approximately ₹351.56 lakh.

### **Receipt and Expenditure**

During the year 2024-25, the total receipt of the Institute amounted to Rs.1336.29 Lacs. This includes Grants Received totalling Rs. 920.00 Lacs out of which an amount of Rs. 440.00 Lacs was received as Grant in Aid under Project Based Support and Rs. 480.00 Lacs was received under the head Development Council for Pulp, Paper and Allied Industries.

Overall expenditure during the year stood of Rs. 1,496.03 lacs which includes an expenditure of Rs.234.94 Lacs incurred towards the procurement of assets.

## RESEARCH AND DEVELOPMENT ACTIVITIES

### PBS PROJECTS

#### Centre Of Excellence for Multiplication of Quality Planting Stock of Selected Tree Species for Indian Pulp and Paper Industry:

##### Objective

- To select various families and genotypes of six indigenous tree species with extreme potential as an alternate raw material for pulp and paper industry.
- To concurrent realized achievement of long term tree improvement and wood science for selected indigenous tree species with multiplication and deployment of promising genotypes.
- To characterize different genotypes rapidly for physical and chemical properties using conventional and non-destructive technologies using Near-Infrared (NIR) Spectroscopy
- To develop clonal multiplication areas and production populations for future research and commercial deployment.
- To ultimately establish Centre of Excellence for Multiplication of Quality Planting Materials of selected indigenous tree species with higher productivity .

##### Highlights:

Under the project activities during the year 2024-25, following progress was made.

- **Setting up of Hardening chambers:** 02 Nos of the hardening chamber was set up for growing the saplings after germination in mist chambers. The hardening chambers are another important infrastructure developed under the project.
- **Multiplications of quality planting stocks:** consistent efforts were made for the multiplications of the selected planting stocks. After slow survival rate, it was better after efforts made which was supported after recruitment of experienced senior project associate.
- **Procurement of Agricultural equipment:** Minor agricultural equipment were procured during the tenure to speed up and facilitate the work related to cleaning the field and plantation of quality planting stock.
- **Recruitment of Manpower:** 8 Numbers of Field Assistant and 9 Field Assistant 3 Project Associates and 1 Senior Project Associate are recruited under the project.



Glimpse of Project Activities

**SOIL FERTILITY | COLLECTION OF SOIL SAMPLES****SOIL FERTILITY | ANALYSIS**

Collection and testing of soil by FRI Soil Scientists

## Setting Up of The State-of-the-art Chemical Recovery Laboratory

### Objectives

- Setting up of the State-of-the-art chemical laboratory in the country to provide services to Indian paper industries which they sought from European and other developed countries, thereby saving their time and foreign currency.
- To create an empowered workforce in the field of chemical recovery with the help of various schemes and training courses as to support Skill India initiative by the Government.
- Development of data bank of black liquor, green liquor, white liquor, lime cake etc. for silica and non-process elements (NPE) rich raw materials. Such data is currently unavailable in the country.
- Generation of this data bank will assist the Indian paper mills and equipment suppliers to run and design chemical recovery system efficiently.

### Highlights

Under this PBS-sponsored project, activities were initiated with an objective to set up a State-of-the-art Chemical Recovery Laboratory in the country to provide services to the Indian Paper Industry, which they had sought from other developed countries. This will not only save time, but at the same time, valuable foreign currency can also be saved.

Presently, there is a huge gap in demand and supply of process technical manpower in the pulp & paper industry. State-of-the-art facilities in the area of Chemical Recovery will also help in providing training to the Technical Manpower of the Pulp and Paper Industry.

Services are provided to Industry by utilizing the facilities so far created under the project. Purchased equipment such as automatic bomb calorimeter, Ball mill and pulping digester with accessories. Generated latest data bank on different physico-chemical, rheological and combustion properties of black liquor collected from the northern and southern part of India. Various paper industries were provided training and troubleshooting support onsite. Training provided to various students in chemical recovery area. The project is completed.

## Setting Up of a Pulp and Paper Mill-based Bio-refinery Laboratory

### Objectives:

Pulp and paper mills are logical hubs of bio refinery activity. About half the organic mass that enters a traditional pulp and paper mill is incinerated. This is the most conservative use of any biomass. Full integration of the incoming biomass and other raw materials, including energy, for simultaneous production of paper, chemical and energy is the major objective of this bio refinery-based project so that economics of the mills could be improved. By integrating bio refinery activities mills have the opportunities to produce bio energy and bio products along with pulp and paper. It will reduce the dependence on fossil fuels.

## Highlights

Pulp mill-based Bio-refinery is a new concept to improve the economy of pulp & paper mills, resource conservation and a clean environment from a point of view. CPPRI is creating state-of-the-art facilities in the area of Bio refinery to cater for the needs of the Indian Paper Industry for transforming them into a bio refinery in addition to regular business for significant technological, economic, social and environmental advantages. Generating an efficient process workforce in the field of biorefinery with the help of various schemes and training for technical personnel to support the Skill India initiative of the government. Data bank related to various value-added products based on agro based pulp and paper mill bio-refinery concept has been created. Various facilities in the lab have been created. This is an ongoing project.

## **Bio-pulping of lignocellulosic material to reduce chemical and energy demand in various pulping processes.**

## Objective

- Screening and characterization of lignin degrading fungi for the use in Bio-pulping process.
- Investigation of fungal treatment of various raw materials for selective lignin degradation during

Bio-pulping to achieve chemical & energy savings and improvement in paper strength

- Setting up a pilot plant for validation of laboratory studies with respect to reduction in chemical, energy demand and pulp properties.

## Highlights

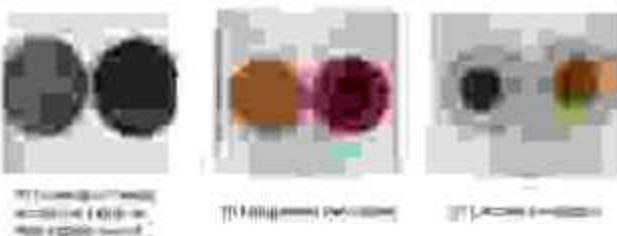
### ACTIVITIES COMPLETED

- Selection of a suitable tree species, sample collection and characterization of wood samples for bio-pulping studies.
- Initial screening of various wood species and selection of local species for bio-pulping studies.



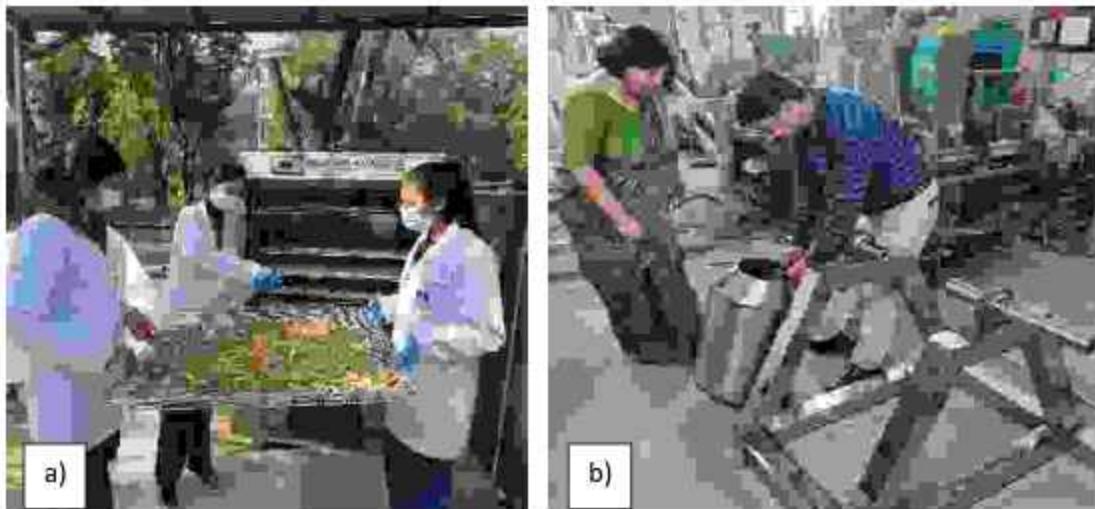
### ACTIVITIES COMPLETED

- Screening of the Pycnoporus cinnabarinus Fungi, known to secrete of various enzymes, their ability to reduce lignin and its potential use in bio-pulping studies.



Aerated Static Bed Bioreactor with an integrated pre-mixer and a Stainless-Steel Jacketed Reactor was successfully designed, commissioned and installed in newly established Pilot Plant Facility of Biotechnology Division.

- Optimization of hard wood samples Chemical pulping, Bleaching and CTMP process by varying chemical dosages has also been completed.
- Bioreactor-based studies were initiated to assess microbial performance under controlled conditions.
- Proximate analysis of treated and untreated wood chips has been carried out at regular intervals and continues as a part of monitoring physicochemical changes.



a) Students with Aerated Static Bed Reactor in Background;  
b) Ms. Anuradha Janbade Checking the Construction of Pre Mixer Reactor

## Setting up of Waste Paper Recycling Promotion Centre

### Objective

- Setting up of Waste Paper Recycling Promotion Centre (WPRPC) in Delhi and Chennai, a step forward to make the waste paper collection sector organized and thus increasing the waste paper collection rate in the country.
- The genesis of the idea of setting up the WPRPC lies in the provision of Solid Waste Management Rules, 2016 and the proposed National Material Recycling Policy.

### Highlights

To enhance the progress of project in the right direction, the Research Advisory Committee (RAC) during its meeting held on August 22, 2023, Chairman RAC instructed to limit the scope of project to following three activities -

- Studying the prevalent wastepaper supply-chain in Delhi.
- To educate and sensitize stakeholders (school children, RWAs etc.) on wastepaper segregation, collection and recycling.
- To set up full-scale certification facility at WPRPC, Delhi.

It was also instructed to prepare the Blueprint of the project activities in consultation with stakeholders (Secretary Generals of Paper Mill Associations) As such the blueprint of the project

activities has been finalized in consultation with the Secretary Generals of Paper Mill Associations. Following project activities are to be taken up according to the Blueprint-

- Recruitment of Manpower, Education on wastepaper recycling with all stakeholders, Studying the prevailing wastepaper supply chain in Delhi.
- To set up a Full Scale Certification facility at Delhi. As such, manpower in the project was recruited and trained.

For spreading awareness and education on wastepaper recycling with all stakeholders (school children, RWAs etc.) on wastepaper segregation, collection and recycling material like presentations and posters are prepared.



*Poster samples of recycling paper material*

Also WPRPC team along with Dr. B.P. Thapliyal, Secretary General IARPMA (Member from Industrial Core Group) visited One Step Greener an NGO in Gurgaon in August 2024, which is working in solid waste collection and segregation in Delhi/ NCR.

In 2023, One Step Greener collected about 6,00,000 kilograms of waste from more than 2500 households in Delhi colonies including, Vasant Vihar, Shantiniketan, West End and Anand Niketan.



*Different type of waste material at One Step Greener*

Field survey of wastepaper/ other solid waste collection & segregation mechanism and door to door awareness programme has been carried out by CPPRI team in following Residential Societies -

- Parivar Apartment, I.P. Extension, 205 (solid waste collection and segregation activity)
- Navkala Apartment, I.P. Extension, Mandawali, Delhi (Home Composting Program)
- Rana Partap Bagh, Kamla Nagar, Delhi 7 (Door to Door Awareness)
- Rana Partap Bagh, Kamla Nagar, Delhi 7 (Propagation and Profiling)
- Jain Colony, Ward No. - 69, Rana Pratap Bagh, Kamla Nagar (Propagation and Profiling)

Field surveyor w.r.t. the wastepaper collection mechanism was conducted at 20 converting houses, 2 residential societies, and one MRF Centre at Delhi.

#### **To set up full scale certification facility at Delhi.**

Based on BIS Standards (IS 17317: 2019) on Gradation of PostConsumer (Recycled) Paper, a testing manual has been prepared

## **MANUAL FOR**

### **STANDARD TESTING OF POST- CONSUMER (RECYCLED) PAPER**

#### **ACCORDING TO IS 17317 :2019**

*This Manual shall be used as reference to ensure coherence of practice and transparency in operation. This standard is developed to provide guidance to industry professionals, organizations*

1	Product	:	<b>IS 17317 : 2019</b>
2	Title	:	<b>STANDARD TESTING OF POST- CONSUMER (RECYCLED) PAPER</b>
3	Sampling	:	Representative samples for the test shall be drawn as given in 3 if IS 1060 (PART I)
4	List of Testing Equipment	:	Please refer <u>Annexure -A</u>
5	Scheme of Inspection and Testing	:	Please refer <u>Annexure -A</u>



## RSC-DCPPA FUNDDED PROJECTS

### Prefeasibility Report on Availability of Rice Straw and Other Agricultural Residues for Setting up a 10, 50 and 100 TPD CTMP Mother Pulp Mill in North India

#### Objective

- To study the potential of utilization of Rice Straw for CTMP pulp production in North India (Punjab, Haryana, Uttar Pradesh and Uttarakhand).
- To generate a database on the availability of Rice Straw, including other agricultural residues, such as Sarkanda, grasses etc.
- To study Techno-economic Feasibility for production of CTMP pulp using Rice straw generally, and other agricultural residues, such as sarkanda, grasses etc.
- Identify indigenous manufacturer capabilities to supply the equipment and machinery for CTMP pulp production and study CAPEX & OPEX to utilize Rice Straw.

#### Highlights

Under the project activities the meetings were organized from time to time for preparation of the feasibility report. The water and mass balance for all three sizes mills was carried out, and availability of rice straw in all four states UP, UK, Punjab and Haryana was also completed.

### Studies on Alternate Auto-causticization Process for Conventional and Non-Conventional Chemical Recovery Systems

#### Objective

- Development of an improved method for causticizing sodium carbonate containing smelt in conventional chemical recovery system and NaCO generated in the Copeland (LTI)chemical recovery system.
- Reduction in the complexity of conventional causticization process in conventional and non-conventional chemical recovery systems.
- Making chemical recovery operations cost effective and more affordable in small mills.
- Reduction in energy requirements and environmental hazards associated with solid waste and greenhouse gas emissions.
- Reduction in lime requirement.

## **Highlights:**

This project was formulated with an objective of developing an improved method for causticizing sodium carbonate containing smelt in a conventional chemical recovery system and  $\text{Na}_2\text{CO}_3$  generated in the Copeland (LTI) chemical recovery system. The proposed strategy will lead to a reduction in the complexity of the conventional causticization process in conventional and nonconventional chemical recovery systems, making chemical recovery operations cost-effective and more affordable in small mills. Reduction in energy requirements, environmental hazards associated with solid waste and greenhouse gas emission and reduced lime requirement are other benefits of the project. Preliminary studies have shown that around 25% of lime can be saved. The project is completed.

## **Continuing Education For Technical Personnel in The Pulp & Paper Industry**

### **Objectives**

The main objective of this project is to impart training to shop floor and middle level technical manpower to improve their technical skill by providing a way of information on the latest developments in the various areas of pulp and paper making.

### **Highlights**

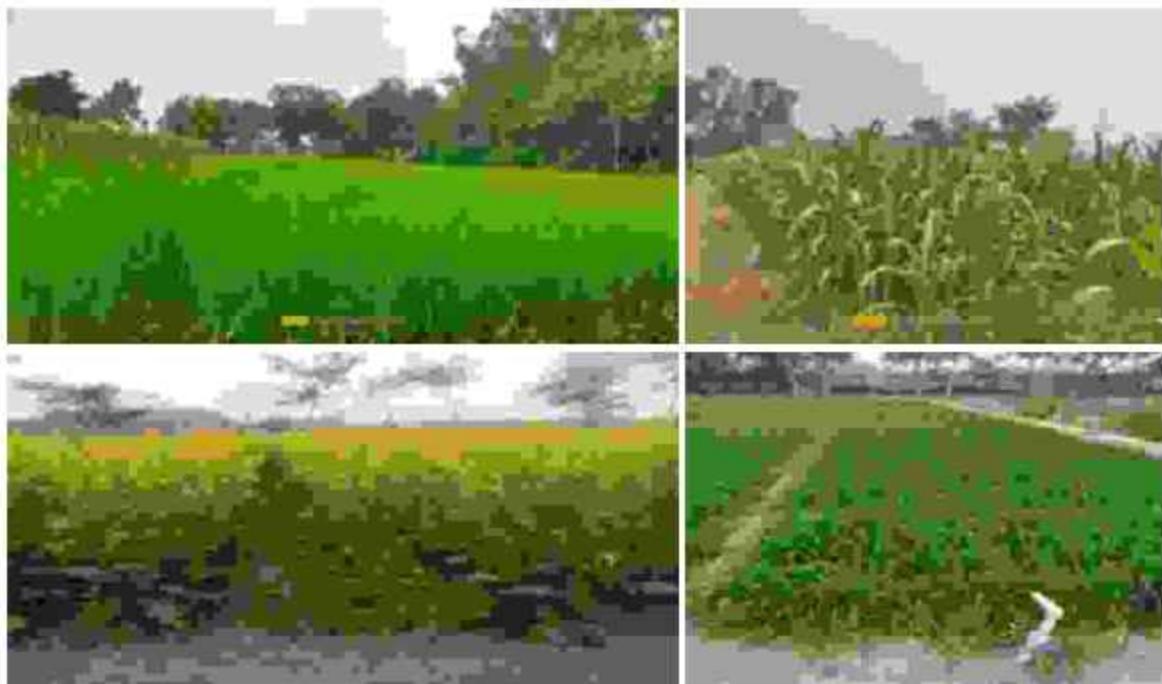
Under this RSC-DCPPAI-sponsored project, technical personnel of the Indian Paper Industry were imparted training in various processes, energy & environmental areas. Knowledge sharing by eminent faculty of IITs, CPPRI, Various other Institutes and industry will enable them to utilize the resources, equipment & unit processes to the optimum level. Various training programs were organized by the institute at CPPRI and another part of the country in the reported period, in which the undersigned was actively associated as Project Leader and also delivered technical lectures. More than 250 Technical Personnel of the Industry were trained in the year. The project is completed and report is under preparation.

## **Land Application of Treated Effluent from Pulp & Paper Mill and Evaluation of its Impact on Soil, Ground Water Properties & Crop Productivity (Joint project of CPPRI & IARI)**

The objective of the project being jointly executed by CPPRI & Indian Agricultural Research Institute (ARI) is the utilization of treated effluent for land application (agriculture / horticulture to conserve fresh water) and evaluation / monitoring the impact of land application on treated effluent in soil properties , ground water quality as well as crop health.

Under the project following activities were carried out during the year :

- Field experiments using treated effluent of the mill with different dilutions were carried out in the Kharif Season for the cultivation of Maize and Rice crops & in Rabi the Season for the cultivation of wheat & mustard crops.
- The crop yield and crop growth parameters were also evaluated in the context of different dilutions employed for the irrigation of crops.
- Sampling and analysis of the treated paper mill effluent , soil and groundwater samples from the two selected mill field trial sites during pre-sowing and post-sowing to evaluate the impact of land application of treated effluent on soil and groundwater were carried out



*Field Trials with Rabi & Kharif Crops at Mill Site*



*CPPRI Team at Mill Site*



- The progress of the project activities was presented before the Technical Sub Committee of Research Steering Committee of Development Council for Pulp Paper & Allied Industries & Research Steering Committee of Development Council for Pulp, Paper & Allied Industries in the meetings held on 24.10.2024 and 26.12.2024, respectively

## **Census Survey of Indian Paper Industry (CPPRI)**

### **Objective**

The objective of the project is the updation of the data related to inventory of Pulp & Paper Mills in the different clusters/state of the country, paper production, and paper consumption, etc., study imports and export trends and related developments in the domestic paper industry.

### **Highlights**

A comprehensive questionnaire was prepared for the collection of latest data related to installed capacity, operational capacity , raw material used and consumption, end products produced, number of paper machine, water consumption, power consumption, steam consumption, etc., and circulated to various mills and mill associations.

- Successfully completed physical verification, inventoryzation, and collection of relevant data related to Pulp and Paper Mills in Kashipur Cluster, Muzaffarnagar, Meerut Cluster in Tamil nadu and Karnataka State .
- A meeting was convened with mill associations under the Chairmanship of Joint Secretary, DPIIT to discuss the modalities and possibilities for developing a centralized portal for pulp and paper mills to have yearly data related to the number of paper mills, installed capacity and actual production.
- The progress of the project activities was presented before the Technical Sub Committee of Research Steering Committee of Development Council for Pulp. Paper & Allied Industries & Research Steering Committee of Development Council for Pulp. Paper & Allied Industries in the meetings held on 24.10.2024 and 26.12.2024, respectively.

## PROJECT SPONSORED BY PULP, PAPER AND ALLIED INDUSTRIES

### Production of Pilot Scale Whole Jute Dissolving Pulp for Viscose Fibre sponsored by National Jute Board, Kolkata.

Study on Whole Jute Cultivation and Harvesting and Age Impact on Chemical Composition to find out Suitability for High Purity Cellulose Pulp Production.

Whole jute is a potential cellulosic biomass for production of high purity dissolving grade pulp. Silica content in whole jute is higher as compared to hardwood which is the only negative trait. During the project experiments, it was observed that the cultivation and harvesting practices affects on the silica content of whole jute. To understand this, cultivation of whole jute low silica variety JR0G1 was carried out at CPPRI. The impact of harvesting age was studied by collecting jute plants periodically. It was observed that the jute crop conventionally harvested in 120 days, and it used to be very tender and prone to absorbed silica content while after extending harvesting age by 30 days more (total 150 days) the silica content reduced very significantly. Two low silica variety jute samples coded JR0204 & JR0B2 were received from ICAR - Central Research Institute for Jute and Allied Fibres, (CRIJAF) Calcutta, were also studied under the project.



*Whole jute cultivation in CPPRI Saharanpur*



*Green Whole jute Coded JR0204*



*Dry whole jute Coded JR0204*

Kraft pulping followed by prehydrolysis of whole jute sample was done in laboratory under optimized condition. Screened unbleached pulp sample was bleached using EpDEpHD stage in order to get more than 85 % (ISO) brightness. Final bleached pulp characteristics i.e. alpha cellulose, hemicellulose, ash content, Iron, and calcium brightness were analysed for asses the dissolving grade pulp production.

### **Gap Analysis Study For Sustainable Alternative Adhesives in Plywood Manufacturing Units-**

*Sponsored by Punjab State Council for Science & Technology, Punjab*

Urea-formaldehyde (UF) and phenol-formaldehyde (PF) resins are both commonly used as adhesives in the plywood industry, but their main disadvantage lies in the potential for high formaldehyde emissions, which can be harmful to human health, especially when used in large quantities; while UF resins are generally cheaper and faster curing, they have poor water resistance, whereas PF resins offer better water resistance but are costly, darker in color, and can be more brittle depending on formulation. Central Pulp and Paper Research Institute (CPPRI), Saharanpur, has developed alternative adhesives like lignin-phenol-formaldehyde (LPF)/ lignin formaldehyde (LF) resins, which can offer a sustainable option by partially replacing phenol with lignin, a cost-effective and renewable resource for the plywood sector of Punjab. In this context Punjab State Council for Science & Technology (PSCST) has sponsored a project to CPPRI for conducting the gap analysis study in Punjab plywood industries. The study is ongoing.

## CENTRAL POLLUTION CONTROL BOARD SPONSORED PROJECT

### Monitoring of Grossly Polluting Industries in Ganga & Yamuna River Basin

CPPRI successfully completed monitoring of the technological environmental status of over 143 **Grossly Polluting Industries (GPI)** located in **Ganga & Hindon River Basin** in the states of **Uttar Pradesh, Uttrakhand and Haryana**. The GPI units included from diverse sectors **Pulp & Paper Mills, Textile units and other units viz electroplating & chemical**. A comprehensive report of the units inspected by CPPRI was submitted to CPCB



Textile & Paper Units

## OTHER SPONSORED PROJECT

### Assessment of No Increase in Pollution Load for proposed Capacity Expansion from 615100 TPA to 625000TPA by Modification & Modernization along with Change in Product Mix at Century Pulp & Paper

- A project was commissioned to Central Pulp & Paper Research Institute by Century Pulp & Paper, Lalkuan, a pioneer paper mill of the country to prepare a report on **Assessment of No Increase in Pollution Load for proposed Capacity Expansion from 615100 TPA to 625000TPA by Modification & Modernization along with Change in Product Mix at the mill**.
- Based on the data and information related to proposed expansion, collected from the mill and during subsequent mill visits, a comprehensive report was prepared and submitted to the mill.
- The report has been accepted by **Uttarakhand Pollution Control, Dehradun** and on the basis of the report Century Pulp & Paper has got approval for capacity expansion from 615100



TPA to 625000 TPA by modification & modernization along with change in product mix.

During the Year 2024-25, total 4264 Nos. of paper samples received for different testing by **Paper Testing Division** and 106 Technical Test Reports were prepared by **SPPM Division** in the year 2024-25.

### **1.0 Report on evaluation of pulp for various fibre, physical and strength properties for following clients-**

- i. Tradecom International Private Limited, New Delhi (1 technical test report)
- ii. Visaka Industries Limited, Nalgonda, Post - Kukkadam, Telangana (1 technical test report)
- iii. Sparten Pulp Private Limited, Ahmedabad, Gujarat (1 technical test report)
- iv. Rhino Roofing Product Limited, Colombo, Srilanka (2 technical test reports)
- v. Brown Overseas Private Limited, J. B. Nagar, Andheri-East, Mumbai (1 technical test report)
- vi. Cellpap Mercentile LLP, Mumbai, Maharashtra (1 technical test report)
- vii. Sahyadri Industries Limited, Pune, Maharashtra (2 technical test reports)
- viii. Eco Tech Papers, Guwahati, Assam (1 technical test report)
- ix. Everest Industries Limited, Bhagwanpur, Uttarakhand (5 technical test reports)
- x. Century Pulp & Paper, Ghanshyam Dham, Lalkua, Distt. Nainital, Uttarakhand (4 technical test reports)
- xi. ACFA Industrial Company for Industry, Riyadh, Saudi Arabia (1 technical test report)
- xii. Yash Pakka Limited, Ayodhya, Uttar Pradesh (2 technical test reports)
- xiii. Cellpap Mercentile LLP, Mumbai, Maharashtra (1 technical test report)
- xiv. Jolly Board Limited, Aurangabad, Maharashtra (7 technical test reports)
- xv. ACFA Industrial Company for Industry, Riyadh, Saudi Arabia (3 technical test reports)
- xvi. National Botanical Research Institute, Lucknow, Uttar Pradesh (1 technical test report)
- xvii. Urvashi Pulp & Paper Mills Private Limited, Ankleshwar (1 technical test report)
- xviii. Everest Industries Limited, Bhagwanpur, Uttarakhand (4 technical test reports)
- xix. Brown Overseas Private Limited, J. B. Nagar, Andheri-East, Mumbai (2 technical test reports)
- xx. Shiva Handmade Paper, Haridwar, Uttarakhand (1 technical test report)
- xxi. Durga Handmade Papers, Bihargarh, Uttarakhand (1 technical test report)
- xxii. Tradecom International Private Limited, New Delhi (2 technical test reports)
- xxiii. Sparten Pulp Private Limited, Ahmedabad, Gujarat (2 technical test reports)
- xxiv. GVG Paper Mills Private Limited, Udu malaipettai, Tamil Nadu (1 technical test report) xxv. Sri Balamurugan Papers & Boards, Tamil Nadu (1 technical test report)
- xxvi. Srinivasa Papers Agencies Private Limited, Chennai, Tamil Nadu (1 technical test report)
- xxvii. Uflex Limited, Packaging Division, Noida, Uttar Pradesh (1 technical test report)
- xxviii. Rhino Roofing Product Limited, Colombo, Srilanka (2 technical test reports)

## Consultancy Projects/ Services

Project Name	Sponsored Agency
Additive pulping for wheat straw and eucalyptus wood sample	M/s Absolute Scientific Solutions Jagadhri, Distt. Yamuna Nagar (Haryana)
Feasibility Study on Utilization of Bamboo for Production of Pulp and Paper in North East India	M/s. Kohinoor Pulp and Paper Private Limited, Assam
Study of Ozone bleaching of mill pulp	M/s. Harihar Polyfibre, Kumarapatnam, District: Haveri, Karnataka.
Debarked Moringa for Preparation of Dissolving Grade Pulp	M/s. ABSTCL, Mumbai, Maharashtra
Utilization of annual grass for packaging grade pulp	M/s Devi Energies, Hyderabad.
Optimization refining Study of Aramid fibres	M/s Mukesh Furnishings Pvt Ltd., Panipat.
ECF bleaching of Acacia following ODhot EopDnD bleaching sequence	M/s West Coast Paper Mill, Bangur Nagar, Dandeli.
"ECF bleaching of Eucalyptus following ODhot-EopDnD bleaching sequence	M/s West Coast Paper Mill, Bangur Nagar, Dandeli.
Preparation of ~5 kg Dissolving grade whole jute pulp	M/s. Defence Materials & Stores Research & Development Establishment GT Road, Kanpur



## TECHNICAL AND CONSULTANCY SERVICES

Technical Services were rendered to the following mills and organizations by analysing various samples of fibrous and non-fibrous raw materials (pulp, paper, woody and non-woody raw materials, black liquor, lime, lime sludge, green liquor, white liquor, effluents, groundwater, solid waste etc).

- A.K. Enterprises, Patna, Bihar
- A.P. Paper Mills Limited, Mohali, Punjab
- Aarohi Enterprises, Lucknow, Uttar Pradesh
- Absolute Scientific Solutions, Jagadhri, Haryana
- ACFA Industrial Company for Industry, Riyadh, Saudi Arabia
- Adinath Electronic Security, Jabalpur, Madhya Pradesh
- Adya Enterprises, Reva, Madhya Pradesh
- Afflux IT Solutions, Jabalpur, Madhya Pradesh
- Agarwal Duplex Board Mills Limited, Muzaffarnagar, Uttar Pradesh
- Aggarwal Zarda Factory Private Limited, Saharanpur, Uttar Pradesh
- Al Dhafra Paper Manufacturing Company LLC, Abu Dhabi, UAE
- Amar Ujala Publication Limited, Noida, Uttar Pradesh
- Amazon Papyrus Chemicals Private Limited, Sanga Reddy, Hyderabad, Telangana
- Amber Press Private Limited, Lucknow, Uttar Pradesh
- Amrita Printers, Kanpur, Uttar Pradesh
- Andhra Paper Limited, Kolkata, West Bengal
- Andhra Paper Limited, Kadiyam, Andhra Pradesh
- Andritz Technologies Private Limited, Chennai, Tamil Nadu
- Anjali Art, Etawah, Uttar Pradesh
- Ankita Singh, Research Scholar, Ghaziabad, Uttar Pradesh
- Anubhav Enterprises, Kanpur, Uttar Pradesh
- Anupam Prakashan, Mathura, Uttar Pradesh
- Ashok Rai Boards, Chennai, Tamil Nadu
- Aum Paper Products Private Limited, Jayanagar, Bangalore
- Avery Dennison India Private Limited, Gurgaon, Haryana
- Awadhesh Pratap Singh University, Rewa, Madhya Pradesh
- Bennett Coleman and Company Limited, New Delhi
- Bhagwat Printing Press, Mathura, Uttar Pradesh

- Bhargava Enterprises, Lucknow, Uttar Pradesh
- Bhimrao Ambedkar University, Agra, Uttar Pradesh
- Bhola Ram Papers and Power Private Limited, Moradabad, Uttar Pradesh
- Bhupendra Singh Negi, Raipur, Dehradun, Uttarakhand
- Bihar State Aids Control Society, Patna, Bihar
- Bihar State Text Book Publishing Corporation Limited, Patna, Bihar
- Bihar Vidyalya Pariksha Samiti, Patna, Bihar
- Bindals Papers Mills Limited, Muzaffarnagar, Uttar Pradesh
- Board of School Education Haryana, Bhiwani, Uttar Pradesh
- Brown Overseas Private Limited, Mumbai, Maharashtra
- Capital Business Systems Private Limited, New Delhi
- Cellpap Mercantile LLP, Mumbai, Maharashtra
- Central Pollution Control Board, New Delhi
- Century Pulp and Paper, Nainital, Uttarakhand
- Chandpur Enterprises Limited, Bijnor, Uttar Pradesh
- Chaudhary Charan Singh University, Meerut, Uttar Pradesh
- Cheema Papers Limited, Kashipur, Uttarakhand
- Chem Process Systems Private Limited, Ahmedabad, Gujarat
- Chhavi Enterprises, Moradabad, Uttar Pradesh
- Cirkla Technologies Private Limited, Mumbai, Maharashtra
- Controller of Stationery, Thiruvananthapuram, Kerela
- Cyrix Healthcare Private Limited, Kochi, Kerela
- D B Corp Limited, Noida, Uttar Pradesh
- Dakshin Bihar Gramin Bank, Patna, Bihar
- DDLS Papers Private Limited, Muzaffarnagar, Uttar Pradesh
- Deepak Art Printers, Mathura, Uttar Pradesh
- Defence Material & Store R & D Est. (DMSRDE), Kanpur, Uttar Pradesh
- Delhi Bureau of Text Books, Delhi
- Director - CSIR – NIIST, Thiruvananthapuram, Kerela
- Dr. Anshuman Singh, Amethi, Uttar Pradesh
- Dr. APJ Abdul Kalam Technical University, Lucknow, Uttar Pradesh
- Durga Handmade Papers, Haridwar, Uttarakhand
- Dynamic Textbooks Printers Private Limited, Jhansi, Uttar Pradesh
- East Corridor Consultants India LLP, Lucknow, Uttar Pradesh
- Eco Tech Papers, Guwahati, Assam
- Ekta Printing Press, Morena, Madhya Pradesh
- Elegance India, Delhi
- Elysium Industries India Private Limited, Jalalpore, Gujarat



- Employment News (Publications Division), New Delhi
- Enmas Andritz Private Limited, Chennai, Tamil Nadu
- Everest Industries Limited, Bhagwanpur, Uttarakhand
- Evergreen Sustainable Solutions Private Limited, Yamuna Nagar, Haryana
- Fibmold Packaging Private Limited, West Mumbai, Maharashtra
- Galaxy Press Private Limited, Lucknow Uttar Pradesh
- Garg Duplex and Paper Mills Private Limited, Muzaffar Nagar, Uttar Pradesh
- Gayatrishakti Paper and Boards Limited, Mumbai, Maharashtra
- General Offset Printing Press Private Limited, Prayagraj, Uttar Pradesh
- Genus Paper and Boards Limited, Muzaffar Nagar, Uttar Pradesh
- Global Control System, Roorkee, Uttarakhand
- GM Offset, Delhi
- Goel Pulp and Paper Private Limited, Muzaffar Nagar, Uttar Pradesh
- Good Luck Publishers Limited, Saharanpur, Uttar Pradesh
- Gopal Traders, Cuttack, Odisha
- Gospel Press, Lucknow, Uttar Pradesh
- Grasim Industries Limited, Kumarapatnam, Karnataka
- Green Globe CE and Recycling LLP, Surat, Gujarat
- GreevosBiopack LLP, Rajkot, Gujarat
- Gulshan Polyols Limited, Muzaffar Nagar, Uttar Pradesh
- GVG Paper Mills Private Limited, Uduvalaipettai, Tamil Nadu
- Har har Mahadev Paper Mills LLP, Sant Kabir Nagar, Gorakhpur
- Haryana School Shiksha Pariyojna Parishad, Panchkula, Haryana
- Heart Touch Paper Private Limited, Kashipur, Uttarakhand
- Hemvati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand
- Hi Tech Papers, Surat, Gujarat
- Himachal Pradesh Board of School Education, Dharamshala, Himachal Pradesh
- HT Media Limited, Greater Noida, Uttar Pradesh
- I.K. Gujral Punjab Technical University, Kapurthala, Punjab
- Indira Gandhi National Open University, New Delhi
- Infinity Advertising Services Private Limited, Faridabad, Haryana
- Intek Tapes Private Limited, Bangalore, Karnataka
- IPSD Publications Private Limited, Ghaziabad, Uttar Pradesh
- ITC Limited, PSPD Tribeni, Hooghly, West Bengal
- ITC Limited - PSPD, Secundrabad, Telangana
- ITC Limited, PSPD, Telangana
- JK Paper Limited, Rayagada, Odisha
- Jitendra and Company, Delhi

- Jivandeep Concepts Private Limited, LakhimpurKhiri, Uttar Pradesh
- JK Paper Limited, Tapi, Gujarat
- JK Paper Limited, New Delhi
- Jolly Board Limited, Aurangabad, Maharashtra
- KM Papers, Rudrapur, Uttarakahand
- K R Pulp and Paper Limited, Shahjahanpur, Uttar Pradesh
- K.C. Printing and Allied Works, Mathura, Uttar Pradesh
- K.P. Packaging Limited, Daman Diu, Maharashtra
- Kagaj Kendra, Kanpur, Uttar Pradesh
- Kamakshi Papers Private Limited, Gajrualla, Uttar Pradesh
- Karalaya Bihar Sanskrit Shiksha Board, Patna, Bihar
- Karnataka Text Book Society (R), Bangalore, Karnataka
- Khanna Paper Mills Limited, Amritsar, Punjab
- Kisaan Printers & Packers, Saharanpur, Uttar Pradesh
- Krishhnnaa and Sons Paper Mills Private Limited, Ratanpuri, Uttarakhand
- Krishna Industries, Ahmedabad, Gujarat
- Krishnanchal Pulp and Papers Private Limited, Muzaffarnagar, Uttar Pradesh
- Kuantam Paper Limited, Hoshiarpur, Punjab
- Kumaon Georesource Private Limited, Haripur, Jamansingh, Uttarakhand
- Kumar Printers and Stationers, Saharanpur, Uttar Pradesh
- Kumarappa National Handmade Paper Institute, Jaipur, Rajasthan
- Ladhar Paper Mills, Jalandhar, Punjab
- Lovely Offset Printers Private Limited, Shivakasi, Tamil Nadu
- Lucknow Printers and Publishers, Lucknow, Uttar Pradesh
- M.L. Paper Convertor, Lucknow, Uttar Pradesh
- Maa Shakumbhari University, Saharanpur, Uttar Pradesh
- Madhya Pradesh Bhoj (Mukt) Vishvidhyalya, Bhopal, Madhya Pradesh
- Madhya Pradesh Medical Science University, Jabalpur, Madhya Pradesh
- Madhyamik Shiksha Board Rajasthan, Ajmer, Rajasthan
- Madhyamik Shiksha Mandal Chhattisgarh, Raipur, Chhattisgarh
- Madhyamik Shiksha Mandal Madhya Pradesh, Bhopal, Madhya Pradesh
- Madhyamik Shiksha Parishad, Prayagraj, Uttar Pradesh
- Magnum Ventures Limited, Sahibabad, Uttar Pradesh
- Maharishi Dayanand University, Rohtak, Haryana
- Makhanlal Chaturvedi National University of Journalism & Communication, Bhopal, Madhya Pradesh
- Manohar Printing Press, Mathura, Uttar Pradesh
- Maruti Papers Private Limited, Shamli, Uttar Pradesh



- Maxim Specialty Chemicals Private Limited, Gautam buddha Nagar, Uttar Pradesh
- Meenu Paper Mills Private Limited, Muzaffarnagar, Uttar Pradesh
- Micronics Computers, Jabalpur, Madhya Pradesh
- Mitra Data Care, Jabalpur, Madhya Pradesh
- Mukesh Educational Store, Moradabad, Uttar Pradesh
- Mukesh Furnishing Private Limited, Panipat, Haryana
- Mysore Sales International Limited, Bangaluru, Karnataka
- Naini Papers Limited, Kashipur, Uttarakhand
- Narang Traders, Moradabad, Uttar Pradesh
- National Botanical Research Institute, Lucknow, Uttar Pradesh
- National Institute of Open Schooling, Noida, Uttar Pradesh
- National Jute Board, Kolkata, West Bengal
- National Printers, Ranchi, Jharkhand
- New Lokmanya Press, Mathura, Uttar Pradesh
- Nirmal Traders, Ghaziabad, Uttar Pradesh
- North Bihar Power Distribution Company Limited, Patna, Bihar
- Northern India Textile Research Association, Ghaziabad, Uttar Pradesh
- Novateur Electrical and Digital System Private Limited, Nashik, Maharashtra
- NP Enterprises, Meerut, Uttar Pradesh
- NPT Papers Private Limited, New Delhi
- Office of the Commissioner of Customs (Export), Mumbai, Maharashtra
- Omsree Papertek Private Limited, Hyderabad, Telangana
- Organo Chemical Industries, Mumbai, Maharashtra
- Orient Board and Paper Mills Private Limited, Muzaffarnagar, Uttar Pradesh
- Orient Paper Mills, Shahdol, Madhya Pradesh
- Oyster Printers and Publishers Private Limited, Ahmedabad, Gujarat
- Pakka Impact Limited, Bangaluru, Karnataka
- Panchayati Raj Training Institute (PRIT), Lucknow, Uttar Pradesh
- Parag D. Nathe, Thane, Maharashtra
- Paras Printers, Delhi
- Parksons Packaging Limited, Rudrapur, Uttarakhand
- Pearl Minechem, Udaipur, Rajasthan
- Pi Hemp Private Limited, Solan, Himachal Pradesh
- Pioneer Printers, Agra, Uttar Pradesh
- Pitambara Books Private Limited, Jhansi, Uttar Pradesh
- Pooja Traders, Etawah, Uttar Pradesh
- Prakash Packagers, Lucknow, Uttar Pradesh
- Prarambhik Shiksha Evam Sarv Shiksha Abhiyan, Bhojpur, Bihar

- Print O Land, Jaipur, Rajasthan
- Print Plus Private Limited, Thane, Maharashtra
- Printex India, Allahabad, Uttar Pradesh
- Printing and Stationery Department, Panchkula, Haryana
- Prof. Rajendra Singh (Rajju Bhaiya) University, Allahabad, Uttar Pradesh
- PSB Paper Limited, US Nagar, Uttarakhand
- Pulp and Paper Research Institute, Jaykaypur, Rayagada, Odisha
- Punjab National Bank, Noida, Uttar Pradesh
- Punjab State Lotteries, Chandigarh, Punjab
- Quarterfold Printabilities Private Limited, Mumbai, Maharashtra
- R.K. Trading Company, Kasganj, Uttar Pradesh
- Radex Stationery India Private Limited, New Delhi
- Raghav Paper Corporation, Chandigarh
- Rajasthan Rajya Pathya Pustak Mandal, Jaipur, Rajasthan
- Rajeev Chemical Private Limited, Ghaziabad, Uttar Pradesh
- Rajeev Prakashan, Prayagraj, Uttar Pradesh
- Rajiv Gandhi University of Knowledge Technologies, Nuzvid, Andhra Pradesh
- Rajiv Machines Private Limited, Ghaziabad, Uttar Pradesh
- Rajya Kendriya Mudranalya, Jaipur, Rajasthan
- Rajya Pariyojna Nideshak, Lucknow, Uttar Pradesh
- Rama Shyama Papers Private Limited, Bareilly, Uttar Pradesh
- Rayana Paper Board Industries Limited, UNIT – I, Sant Kabir Nagar, Uttar Pradesh
- Renewsys India Private Limited, Mumbai, Maharashtra
- Rhino Roofing Product Limited, Colombo, Sri Lanka
- Rishabh Metals and Chemicals Private Limited, Mumbai, Maharashtra
- Ruchira Papers Limited, Sirmaur, Himachal Pradesh
- S.K. and Company, Budaun, Uttar Pradesh
- S.K. Paper Mills Private Limited, Dhandera, Uttar Pradesh
- Sahota Papers Limited, Jaspur, U.S. Nagar, Uttarakhand
- Sahyadri Industries Limited, Pune, Maharashtra
- Saleem, Saharanpur, Uttar Pradesh
- Samekit Bal Vikas Sewaye Nideshalya (ICDS), Patna, Bihar
- Sanjay Publicity and Stationers, Kashganj, Uttar Pradesh
- Sanyukt Aayukt Madhnishedh, Patna, Bihar
- SAP Print Solutions Private Limited, Jabalpur, Madhya Pradesh
- School Shiksha Evam Rajya Pariyojna Nideshak Karyalya, Panchkula, Haryana
- Seuraprint Private Limited, Faridabad, Haryana
- Security Printers of India Private Limited, Kanpur, Uttar Pradesh



- Shah Paper Mill Limited, Vapi, Gujarat
- Sharda Papers, Lucknow, Uttar Pradesh
- Shiv Enterprises, Aligarh, Uttar Pradesh
- Shiva Handmade Papers, Haridwar, Uttarakhand
- Shivam Offset, Kolahpur, Maharashtra
- Shree Bhageshwari Papers Private Limited, Muzaffar Nagar, Uttar Pradesh
- Shree Kela Jee Books Private Limited, Agra, Uttar Pradesh
- Shree Krishna Paper Mills and Industries Limited, New Delhi
- Shree Shivaay Enterprises, Lucknow, Uttar Pradesh
- Shree Sidhbali Paper Mills Limited, Muzaffar Nagar, Uttar Pradesh
- Shree Vrindavan Enterprises, Noida, Uttar Pradesh
- Shreyans Industries Limited, Ahmedgarh, Punjab
- Shri Balaji Tradelink, Tarodi BU, Tarodi, Nagpur, Maharashtra
- Shri Prema Enterprises, Noida, Uttar Pradesh
- Shri Ram Enterprises, Noida, Uttar Pradesh
- Shri Swaroop Enterprises, Noida, GB Nagar, Uttar Pradesh
- Shriram Institute of Industrial Research Institute, New Delhi
- Siegwerk India Private Limited, Alwar, Rajasthan
- Silverton Papers Limited, Muzaffar Nagar, Uttar Pradesh
- Silverton Pulp and Papers Private Limited, Muzaffar Nagar, Uttar Pradesh
- Singhal Agencies, Lucknow, Uttar Pradesh
- Skylark Printers & Publishers Private Limited, Mathura, Uttar Pradesh
- Smt. Niharika Gupta, Lucknow, Uttar Pradesh
- South Bihar Power Distribution Company Limited, Patna, Bihar
- Sparten Pulp Private Limited, Ahmedabad, Gujarat
- Sri Baalamurugan Papers and Boards, Namakkal District, Tamil Nadu
- Sri Harsha Concrete Projects (India) Private Limited, Hyderabad, Telangana
- Srinivasa Paper Agencies Private Limited, Chennai, Tamil Nadu
- SS Enterprises, Dhar, Madhya Pradesh
- Star Paper Mills Limited, Saharanpur, Uttar Pradesh
- State Health Society, Patna, Bihar
- State Society of Ultra Poor and Social Welfare, Patna, Bihar
- Suchitra Dyeing and Printing Mills Private Limited, Baleshwar, Gujarat
- Suchna Avam Jan Sampark Vibhag, Patna, Bihar
- Sun Plast, Kolkata, West Bengal
- Sun Wood Industry, Yamuna Nagar, Haryana
- Suncity Chemical and Mineral Private Limited, Jodhpur, Rajasthan
- Surat Municipal Corporation, Surat, Gujarat

- Suryansh Pulp and Board Private Limited, Kurukshetra, Haryana
- Swastika Print well (India) Private Limited, Lucknow, Uttar Pradesh
- Systomat Solutions Private Limited, Lucknow, Uttar Pradesh
- TTD Press, Tirupati, Andhra Pradesh
- Tehri Pulp and Paper Limited, Muzaffarnagar, Uttar Pradesh
- The Assam State Textbook Production and Publication Corporation Limited, Guwahati, Assam
- The Institute of Chartered Accountants of India, Noida, Uttar Pradesh
- The Institute of Chartered Accountants of India, Delhi
- The Sandesh Limited, Ahmedabad, Gujarat
- The Sirpur Paper Mills Limited, Kagaznagar, Adilabad, Telangana
- The Trash Company, Ahmedabad, Gujarat
- The Tribune Trust, Chandigarh
- The West Coast Paper Mills Limited, Dandeli, Karnataka
- Tirupati Baala ji Fibres Private Limited, Muzaffar Nagar, Uttar Pradesh
- Tradecom International Private Limited, New Delhi
- U.V. Enterprises, Agra, Uttar Pradesh
- Uflex Limited, Gautam Buddha Nagar, Uttar Pradesh
- Umesh KRN Tyagi, Dehradun, Uttarakhand
- Unilever Industries Private Limited, Mumbai, Maharashtra
- Universal Engineering Corporation, Saharanpur, Uttar Pradesh
- Upper Rajya Pariyojna Nideshak, Lucknow, Uttar Pradesh
- Urvashi Pulp and Paper Mills Private Limited, Ankleshwar, Gujarat
- V S Print Graphics, Jhansi, Uttar Pradesh
- Veer Narmad South Gujarat University, Surat, Gujarat
- Vikram University, Ujjain, Madhya Pradesh
- Vipin Paper Agencies, Bengaluru Urban, Karnataka
- Visaka Industries Limited, Nalgonda, Telangana
- Vishwa Pariwar, Raipur, Chhattisgarh
- West Coast Paper Mills Limited, Dandeli, Karnataka
- Whale Stationery Products Limited, Dehradun, Uttrakhand
- Yash Pakka Limited, Ayodhya, Uttar Pradesh
- Yash Printing Press, Bijnor, Uttar Pradesh
- York Collusose Private Limited, Yamuna Nagar, Haryana
- Zila Gramin Vikas Abhikaran, Patna, Bihar
- Zila Jan Sampark Padadhikari, Samastipur, Bihar



## Consultancy Services

Environmental Management Division

### ZLD Feasibility Evaluation

- Garjaya Papers Private Ltd., Bazpur, Uttarakhand
- Harharmahadev Paper Mills LLP, Jabbar Tappa Mehdawal, Sant Kabir Nagar, Uttar Pradesh

### ETP Performance Evaluation

- Shree Bhageshwari Papers Private Limited Unit – 2, Muzaffarnagar, Uttar Pradesh
- Bindals Papers Mills Limited, Muzaffarnagar, Uttar Pradesh
- Tehri Pulp and Paper Limited, Unit-I, Muzaffarnagar, Uttar Pradesh
- Tehri Pulp and Paper Limited, Unit- II, Muzaffarnagar, Uttar Pradesh
- Garg Duplex & Papers Private Ltd, Muzaffarnagar, Uttar Pradesh
- Silverton Pulp and Papers Private Limited, Unit-I, Muzaffarnagar, Uttar Pradesh
- Silverton Pulp and Papers Private Limited, Unit-II, Bhopa Road, Muzaffarnagar, Uttar Pradesh
- Sidhbali Paper Mills Limited, Bhopa Road, Muzaffarnagar, Uttar Pradesh
- Meenu Paper Mills, Bhopa Road, Muzaffarnagar, Uttar Pradesh
- Tirupati Baalaji Fiberrs Private Limited Muzaffarnagar, Uttar Pradesh

### Adequacy Assessment of Effluent Treatment Plant

- Rayana Paper Board Industries Limited (Unit – I), Khalilabad, District Sant Kabir Nagar, Uttar Pradesh
- Kamakshi Paper Mill, Gajraula, Uttar Pradesh
- Cheema Papers Limited, Kashipur, Udhampur, Udhampur
- Ramaa Shyama Papers Private Limited, Rajau Paraspur, Bareilly, Uttar Pradesh
- Sahota Papers Limited, Kashipur, Udhampur, Udhampur
- Krishhnnaa and Sons Paper Mills Pvt. Ltd. , Bazpur , Uttarakhand
- Star Paper Mills Ltd., Saharanpur, Uttar Pradesh

### Physical Chemistry, Pulping and Bleaching Division

- Absolute Scientific Solutions Jagadhri, District Yamuna Nagar (Haryana)
- Kohinoor Pulp and Paper Private Limited, Assam
- Harihar Polyfibre, Kumarapatnam, District: Haveri, Karnataka.

- ABSTCL, Mumbai, Maharashtra
- Devi Energies, Hyderabad.
- Mukesh Furnishings Private Limited, Panipat.
- West Coast Paper Mill, Bangur Nagar, Dandeli.
- Defence Materials and Stores Research and Development Establishment GT Road, Kanpur

## MEETINGS ORGANIZED / ATTENDED

### RAC Technical Committee Meeting

CPPRI RAC technical committee meeting was organised in hybrid mode on 4<sup>th</sup> November, 2024. The members and representative of the technical committee of RAC joined online meeting which was coordinated by Dr. Ashish Kumar Director, CPPRI. The progress of the five RAC -PBS projects was presented by project principles investigators and suggestions given by the members were recorded. The extension of one project "State of Art Chemical Recovery Laboratory" was asked by The PI of the project Dr. A. K. Dixit, which was recommended by the the technical committee.

### Meeting of CPPRI Research Advisory Committee

CPPRI RAC meeting was held on October18, 2024 in hybrid mode. Shri N.K. Wadhwa, Director DPIIT observed the various agenda points presented by Director CPPRI. The meeting was chaired by Chairman Shri Sanjiv, Joint Secretary DPIIT. The agenda of the meeting was presented by Dr. Ashish Kumar, Director CPPRI. The progress of the 5 RAC projects was observed by chairman and members of the committee. The valuable suggestions on projects was recorded in the minutes and circulated among the members after due approval of the Chairman. The extension of one project "State-of- the- Art Chemical Recovery Laboratory" was asked by The PI of the project Dr.A.K.Dixit which was approved by the Chairman -RAC.



Glimpse of Meeting

## **Meeting of the Development Council for Pulp, Paper and Allied Industries (DCPPAI)**

Meeting of the Development Council for Pulp, Paper and Allied Industries (DCPPAI) on July 19 2024 in hybrid mode. The meeting was chaired by Shri Sanjiv, Joint Secretary, DPIIT. Dr. L.P. Singh, Director CPPRI and Member Secretary presented the Agenda of the Meeting. The Action Taken Report, Agenda points related to various issues of Pulp and Paper Industry was discussed during the meeting.

## **Meeting of Technical Sub-Committee of Research Steering Committee of Development Council for Pulp , Paper & Allied Industries (RSC-DCPPAI)**

Meeting of Technical Sub-Committee of Research Steering Committee of Development Council for Pulp, Paper and Allied Industries (RSC-DCPPAI) was held on October 24, 2024 under the Chairmanship of Shri Neehar Agarwal in hybrid mode. The meeting was attended by other members viz Dr. Dharamdutt, IIT Roorkee, Saharanpur Campus, Dr Vivek Kumar, IIT Delhi, Dr C.S. Kashikar, Orient Paper Mills Ltd., Shri Suresh Babu, Khanna Paper Mills Limited Dr. Nitin Endlay, CPPRI presented the agenda of the meeting. The committee reviewed the progress of ongoing projects and new project proposals .

## **Meeting of Research Steering Committee of Development Council for Pulp, Paper & Allied Industries (RSC-DCPPAI)**

The meeting of the Research Steering Committee of Development Council for Pulp, Paper and Allied Industries (RSC DCPPAI) was organized on December 26, 2024 at Vanijya Bhawan, New Delhi under the Chairmanship of Shri Sanjiv, Joint Secretary, DPIIT. Dr Ashish Kumar in Hybrid Mode, Director CPPRI and Member Secretary presented the Agenda of the meeting. The committee reviewed the progress of ongoing projects and also the recommendations of the Technical subcommittee for new project proposals and accordingly approved them.

### **Meetings Attended**

- A meeting of Shri N.K.Jain and CEO Kohinoor Pulp and paper Pvt Ltd , Director and Senior Scientist Dr. A.K. Dixit, Dr. Priti S. Lal, Dr. Sanjay Tyagi and Sh. Alok Goel were attended on April 24<sup>th</sup> 2025. The discussion on Feasibility Report on availability of Bamboo in Northeast for Papermaking and use of Bamboo for quality papermaking was carried out. Mr. N.K. Jain has sponsored project on the feasibility report preparation to CPPRI.



- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended Technical Committee Meeting of CHD – 15 on April 24 in hybrid mode at CPPRI Saharanpur.
- Dr. A.K. Dixit, Dr. Priti S. Lal and Dr. Arvind Sharma attended a Kickstart meeting on RSC project on Feasibility report of Rice straw utilization. Along with S.G. IARPMA Dr. B.P. Thapliyal and Mr. Dhananjay Kumar, Mr. Mukesh from Kolvin and Ms. Simran of Eupraxia Advisory Private Limited at CPPRI Board Room on May 03, 2024.
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel visited Paper Section, DPIIT New Delhi to attend a meeting related to CPPRI Funds, PFMS Office at Shivaji Stadium and BIS Manak Bhawan to attend a meeting of P-9 as a convener from May 13-14, 2024.
- Dr. Priti S. Lal attended board of directors meeting of Satia Paper Mills Limited on 27.05.2024. The meeting was held at Chandigarh Office of the Company.
- Ms. Anuradha V Janbade and Dr. Nitin Kumar attended an online meeting on May 28, 2024 with Mr. Geoff Fisher and Mr. Dinesh Patel, representatives of a Canadian startup engaged in the application of hemp fibres in the textile industry. The discussion focused on the available infrastructure and capabilities at CPPRI for carrying out enzymatic hydrolysis-based pretreatment of hemp fibres prior to their utilization in textile processing.
- Dr. Vivek Prasad Shaw, Senior Scientific Officer (PD), CCRI, Coir Board (Ministry of MSME, Government of India) visited CPPRI, on May 29-30, 2024 and had meeting with Scientist of PCPB Division for combined project on utilization of Coir Fibre for various grades of pulp, paper and board.
- Dr. Priti S. Lal and Dr. Arvind Sharma attended review meeting on project "Production of Pilot Scale Whole Jute Dissolving Pulp for Viscose Fibre" held by Expert & Monitoring Committee (EMC) and Chaired by the Jute Commissioner on June 03, 2024 through hybrid mode in Patsan Bhawan, New Town, Kolkata.
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel visited BIS Manak Bhawan, New Delhi to attend a meeting of ISO /TC-06 as a Convener from June 13-14, 2025

- Sh. Alok Kumar Goel visited NCCBM, Ballabhgarh, Faridabad to discuss purchase and Finance related matters and also visited IARPMA, New Delhi to attend a meeting for finalization of WPRPC Blueprint in IARPMA from June 26-27, 2024
- Sh. Satya Dev Negi visited IARPMA Office, New Delhi for discussion regarding wastepaper collection and finalizing the blueprint of the WPRPC Project on June 26, 2024
- Dr. Priti S. Lal, Sh. Alok Kumar Goel and Sh. Satya Dev Negi visited IARPMA, New Delhi to attend a meeting regarding the work style of One Step Greener, Industrial Area, Gurugram along with Secretary General, IARPMA Dr. B. P. Thapliyal from July 04 - 05, 2024



- Dr. Priti S. Lal attended 30<sup>th</sup> Board meeting of NJB held on 5<sup>th</sup> July 2024 at Udyog Bhawan New Delhi under the chairmanship of the secretary textile and presented the progress of the project "Production of dissolving grade pulp from whole jute for viscose fibre".
- Dr. Sanjay Tyagi attended online 4<sup>th</sup> Sectoral Advisory Group meeting in Pulp and Paper Sector on July 12, 2024
- Dr. Sanjay Tyagi attended 1<sup>st</sup> meeting of Expert Panel working group formed on "Development of Code of Practice on Sustainable Practices" to be followed for Paper Sector on July 18, 2024
- Sh. Alok Kumar Goel attended online Meeting of DCPPAI on July 19, 2024.
- Dr. Sanjay Tyagi attended meeting at NCERT, New Delhi as an expert member for framing up of text book tender specifications on July 24, 2024
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended 33<sup>rd</sup> Technical Committee Meeting of CHD-15 at BIS, Manak Bhawan, New Delhi on July 24, 2024
- Dr. Sanjay Tyagi attended online meeting on "Review of existing frame work of cost accounting records and cost audit" on August 22, 2024
- Dr. Priti S. Lal Attended Board and Audit and Nomination and remuneration Committees Meetings of the Satia Industries Limited held on Friday, 09<sup>th</sup> August, 2024. The meeting was held at Chandigarh Office of the Company .



- Dr. Sanjay Tyagi attended online 5<sup>th</sup> meeting of CCTS held at BEE, Sewa Bhawan, New Delhi on August 27, 2024
- Sh. Alok Kumar Goel attended a CHD-16 Technical Committee Meeting at IIP, Patparganj, Delhi on September 06, 2024
- Sh. Alok Kumar Goel attended a meeting on CPPRI Budget (BE and RE) at DPIIT, Udyog Bhawan, New Delhi on September 19, 2024.
- Sh. Alok Kumar Goel participated the UPITS -2024, International Trade Show – 2<sup>nd</sup> Edition at India Expo Centre, Greater Noida on September 29, 2024
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended the meeting at BIS Manak Bhawan for the Revision of IS Standard IS: 1848 (Part-I) on October 18, 2024
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended the 34<sup>th</sup> Technical Committee Meeting at BIS, Manak Bhawan, New Delhi on October 23, 2024
- Ms. Anuradha V Janbade and Dr. Nitin Kumar attended RSC-DCPPAI Meeting on Project Review conducted on October 24, 2024 at CPPRI to review the status of ongoing projects and to discuss newly submitted project proposals for future consideration and funding.
- Dr. Sanjay Tyagi attended meeting of technical committee at BEE, for discussion on National Energy Conservation Awards (NECA) 2024 on October 29, 2024
- Ms. Anuradha V Janbade attended RSC-DCPPAI Technical Committee meeting on November 4, 2024 at Vanijya Bhawan, New Delhi
- Ms. Anuradha V Janbade and Dr. Nitin Kumar attended Research Advisory Committee (RAC) Meeting convened on November 4, 2024 at CPPRI.
- Dr. Sanjay Tyagi attended meeting held under the chairmanship of JS, DPIIT at Vanijya Bhawan, New Delhi to discuss UNIDO's proposed projects (Phase III) on November 13, 2024.
- Dr. Priti S. Lal Attended Board of Directors meeting of Satia Paper Mills Limited on November 13, 2024. The meeting was held at Chandigarh Office of the Company.
- Dr. Priti S. Lal and Dr. Arvind Sharma attended a meeting on utilization of bamboo for production of dissolving grade pulp with Rakesh Pundir, ABSTCL Mumbai on November 11, 2024.
- Dr. Sanjay Tyagi attended meeting of technical committee at BEE, for discussion on National Energy Conservation Awards (NECA) 2024 on November 22, 2024.
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended a meeting for ISO /TC-06 /SC 2 / WG- 24 regarding 'Corrugated fiber board test method' at BIS, Manak Bhawan, New Delhi on November 26, 2024
- Sh. Alok Kumar Goel attended 1<sup>st</sup> meeting of Audit Ad-hoc Committee of DPIIT for the settlement of the outstanding IRs / Audit Pars at DPIIT, Udyog Bhawan, New Delhi on November 27, 2024
- Dr. Sanjay Tyagi attended meeting on "Tax free paper import dumping from ASEAN countries" in hybrid mode on December 10, 2024

- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended online meeting chaired by Sh. Sanjeev Ji, Joint Secretary, DPIIT on Import surge on December 11, 2024
- Dr Priti S.Lal attended review meeting and presented progress of the on ongoing project "Production of Pilot Scale Whole Jute Dissolving Pulp for Viscose Fibre" held by Expert & Monitoring Committee (EMC) NJB and Chaired by the Jute Commissioner on December 16, 2024 at Patsan Bhawan, New Town, Kolkata.
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended a meeting of RSC- DCPPAI regarding at DPIIT, Vanijya Bhawan, New Delhi on December 26, 2024
- Dr. L.P. Singh, Dr. A.K. Dixit, Ms. Anuradha V Janbade and Ms. Barnali Shome attended meeting with Director, Paper Section, DPIIT regarding clarifications on CPPRI Recruitment Process on December 26, 2024 at Udyog Bhawan, New Delhi
- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended a meeting along with Dr. Ashish Kumar, Director, on QCO (IS: 1848 and IS: 4658) regarding. The meeting was chaired by Sh. Sanjeev Ji, Joint Secretary, DPIIT at Vanijya Bhawan, New Delhi on January 06, 2025
- Dr. Sanjay Tyagi attended 1st technical committee meeting to develop technical criteria for paper product held under the chairmanship of member secretary, CPCB in hybrid mode on January 09, 2025
- Sh. Alok Kumar Goel attended online meeting with UBQ to discuss the best possible ways to provide technical assistance to UBQ on January 11, 2025
- Sh. Satya Dev Negi visited WPRPC, New Delhi for training and interaction and observed the progress of the project with newly recruited Project Associate and Field Assistants at WPRPC Center on January 13, 2025
- Dr. Sanjay Tyagi attended meeting to review the progress of projects under UNIDO- India CP 2018 - 22 held at Vanijya Bhawan, New Delhi on January 20, 2025
- Dr. Sanjay Tyagi attended online meeting with representative of Envopap on "Development of 300 GSM carbon board using a ground softwood fibers" at CPPRI on January 22, 2025
- Dr. A.K. Dixit, Dr Priti S Lal, Dr Arvind Sharma attended the meeting with Dr.B.P.Thapliyal for brain storming discussion on the Techno-economic feasibility at CPPRI Office in New Delhi on 6 February, 2025.
- Dr. Priti S. Lal attended board of Directors meeting of Satia Paper Mills Limited on February 11, 2024. at the Registered Office of the Company At VPO: Rupana, Malout Muktsar Road, Dist: Muktsar, Punjab
- Dr. Sanjay Tyagi attended online 6<sup>th</sup> meeting of working group under CCTS on February 11, 2025
- Ms. Anuradha V Janbade and Dr. Nitin Kumar attended Online Meeting on Government Intranet Services conducted on February 12, 2025
- Dr. Priti S. Lal, Dr. Sanjay Tyagi and Sh. Alok Kumar Goel attended CHD-16 meeting at IIT, Saharanpur Campus, Saharanpur on February 13 and 14, 2025.



- Dr. Sanjay Tyagi attended online meeting with project coordinator of North East Centre for Technology Application and Research (NECTAR), an autonomous body under DST, GoI on Papermaking potentials from banana pseudo plant under the project title “A value chain on utilization of banana pseudo steam for value added product” on February 17, 2025.
- Dr. Sanjay Tyagi attended online meeting for discussion on UNIDO paper Phase-III project on February 21, 2025
- Dr. Sanjay Tyagi attended meeting of Stakeholders meeting for listing paper sector items for Public Procurement in VC chaired by JS, DPIIT on February 27, 2025
- Dr. Sanjay Tyagi attended 7<sup>th</sup> working group meeting (Online Mode) under CCTS. Working group was formulated under co-chairmanship of Add. Secretary, MoP & Ad. Secretary, MoEF & CC for compliance mechanism under the carbon credit trading Scheme 2023, on February 28, 2025.
- Dr. Sanjay Tyagi attended 2<sup>nd</sup> Technical Committee meeting to develop technical criteria for paper product under the chairmanship of Member Secretary, CPCB in hybrid mode, on March 03, 2025
- Dr. Sanjay Tyagi attended (Online) meeting with Chief Scientific Officer of HUID, U.K. on possibilities of up-scaling extraction method to manufacture paper and moulded fiber product from onion skins, on March 11, 2025
- Dr. Sanjay Tyagi attended meeting with GT Bharat, commissioned by WWF India to conduct study titled “Hidden risks in the trade foot prints of commodities report” for measuring India’s trade footprint for six commodities including paper at CPPRI on March 11, 2025
- Dr. Sanjay Tyagi attended meeting in hybrid mode organized at Udyog Bhawan, New Delhi to discuss setting up of minimum import price for virgin multilayer paperboard (VPM) in India under the chairmanship of JS, DPIIT on March 13, 2025
- Sh. Alok Kumar Goel and Sh. Satya Dev Negi attended a meeting with Stakeholders on sustainable collection and recycling pathways for the end of life of these types of packaging at Apeejay Business Center, New Delhi and visited WPRPC, New Delhi for reviewing the progress of the project from March 24 - 25, 2025
- Sh. Alok Kumar Goel attended a meeting on sustainable collection and recycling pathways for the end of life of coated paper packing at Apeejay Business Centre, Arunachal Building, 6<sup>th</sup> Floor, Barakhamba Road, New Delhi on March 25, 2025
- Dr. Sanjay Tyagi attended tech committee meeting virtually of TC: CHD 15: Panel P5 on March 26, 2025

## WORKSHOP/TRAINING PROGRAMS ORGANIZED

**Central Pulp and Paper Research Institute (CPPRI), Saharanpur**, successfully organized a series of specialized training programs between October 2024 and March 2025. These programs were designed to enhance technical expertise and promote innovation within the pulp and paper sector. Each session was well-attended by industry professionals, researchers/ technical personnel.

Under the RSC-DCPPRI project entitled **Continuing Education for Technical Personnel in the Pulp and Paper Industry**, 6 Nos of training programme in various areas were organised during 2024-2025.

**“Quality Management in Pulp and Paper Manufacturing”** held on October 25, 2024 at CPPRI, Saharanpur

This program focused on the implementation of effective quality management systems in pulp and paper manufacturing. Participants gained insights into standards, quality control practices, and strategies for continuous improvement.

**“Innovative Approaches to Raw Material Preparation, Pulping, and Bleaching for Better Quality of Pulp”** on November 11-12, 2024 at CPPRI, Saharanpur.

The training explored advanced techniques in raw material processing, pulping, and bleaching. Emphasis was placed on improving pulp quality while ensuring process efficiency and environmental compliance.





**“Wet End Chemistry and Its Impact on Quality of Papermaking”** held on November 28-29, 2024 at Hotel Manor, Kashipur, Uttarakhand.

This program covered the fundamentals and applications of wet end chemistry, highlighting its critical impact on paper quality. Experts shared case studies and troubleshooting techniques for optimizing papermaking operations.

**“Recent Developments in Chemical Recovery Operation”** held on December 26-27, 2024 at CPPRI, Saharanpur.

Focused on the latest advancements in chemical recovery, the training addressed operational efficiencies, technological updates, and environmental sustainability in recovery processes.



**“Biorefinery and Biotechnology Approaches for Pulp and Paper Industry”** held March 26-27, 2025 at CPPRI, Saharanpur.

This session introduced participants to emerging biorefinery and biotechnology approaches aimed

at transforming the pulp and paper industry into a more sustainable and resource-efficient sector.

Each program contributed significantly to capacity building within the industry, fostering knowledge exchange and encouraging the adoption of innovative practices. RSC-DCPPAI remains committed to supporting skill development and technical advancement in the pulp and paper sector through continued collaboration and training initiatives.

#### **Training programme on "Production of Handmade Packaging Material": NGO - Udyogini**

A five-day training programme on "Production of Handmade Packaging Material" was organized by PCPB division from September 23-27, 2024. The programme was attended by five participants from Udyogini, comprising four female and one male trainee. The training aimed to provide both theoretical and practical knowledge on Raw material preparation, Pulping & Bleaching, and Handmade Paper production techniques etc. The training was delivered through a combination of classroom lectures conducted by PCPB scientists and hands-on sessions. On September 27, 2024, a pilot plant visit was organized by CPPRI at the Handmade Paper Unit in Hapur, Uttar Pradesh to participants for exposure to industrial practices and real-time operations in handmade paper manufacturing. The programme enhanced participant's technical understanding and practical skills in sustainable handmade packaging material production.



## Other Training Programmes

### I) Biotechnology Division

In alignment with the institute's mandate of fostering skilled human resources for the pulp and paper sector, Biotechnology Division has been actively engaged in imparting academic training and research exposure to graduate and post-graduate students. During the reporting year, a total of **19 students** successfully completed their **project dissertation works** under the guidance of the division. These students represented a diverse set of reputed universities and institutions, including **Graphic Era University, Dehradun (Uttarakhand); Gurukul Kangri Vishwavidyalaya, Haridwar (Uttarakhand); Uttarakhand University, Dehradun; IIMT University, Meerut; IFTM University, Moradabad; DPMC, Dehradun; CAEHS, Meerut; and Chandigarh Group of Colleges (CGC)**. The training programs were primarily conducted in the specialized area of "Biotechnology and its Application in the Pulp and Paper Industry," wherein students were provided hands-on exposure to laboratory practices, biotechnological methods, and analytical techniques. Such training initiatives reinforce CPPRI's role as a hub of **capacity building, academic-industry collaboration, and skill development**, helping to bridge the gap between academic curriculum and industry demands. By equipping young researchers with applied knowledge and technical expertise, the institute continues to nurture a future-ready workforce capable of addressing challenges in the pulp, paper, and allied sectors.



*Certification Distribution Ceremony*

### ii) Physical Chemistry Pulping and Bleaching Division

In the annual session 2024-25 of CPPRI the many trainees got the training. The training aimed to provide both theoretical and practical knowledge on Raw material preparation, Pulping & Bleaching

etc. The training was delivered through a combination of classroom lectures conducted by CPPRI scientists and hands-on sessions. There are following participants was trained during training programme in physical chemistry pulping and bleaching department of CPPRI.

Name of trainee	Address of trainee	Period of training	Work Specification
Parvesh	Indrashil university	September 2024-December 2024	Pulping and bleaching
Priya Chamoli	Graphic Era university, Dehradun	February 2024-July 2024	PhD work (work on sorghum raw material)
Arthav	Craste Private Limited Pune, Maharashtra	one week of march	Proximate analysis and pulping and bleaching of rice straw
Ritika	Graphic Era university Dehradun	One week of September	Pulping and bleaching

## PARTICIPATION IN SEMINAR, WORKSHOP AND TRAINING PROGRAMS

CPPRI scientists attended following Webinars, Conferences, Training Programme and Workshops during the period 2024-25 to update their knowledge about the latest developments on various aspects of pulp and paper technology:

- Biodegradable Expo 2024, a 3-day Trade Exhibition on Biodegradable, Compostable & Sustainable Products, Machinery, Raw Materials & Allied Industries) at India Expo Centre, Greater Noida, NCR, UP (India) organized by Green Society of India & Indian Exhibition Services on June 05-07, 2024 - Ms. Anuradha V Janbade and Dr. Nitin Kumar.



*Ms. Anuradha V Janbade and Dr. Nitin Kumar at Biodegradable Expo 2024, Greater Noida*

- One day workshop Cum Brainstorming Session for Technical Committee Members organized by BIS / NITS at National Institute of Training for Standardization, (NITS), Noida on July 15, 2024 – Sh. Alok Kumar Goel and Dr. Sanjay Tyagi.
- Half Day Workshop on "New Trends in the Pulp and Paper Industries and role of standards" at BIS Manak Bhawan New Delhi on July 24, 2024- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel
- Webinar on "Road to Excellence" organized by BIS for technical committee members on August 07, 2024.- Dr. Sanjay Tyagi

- Half Day Workshop on "Recent Innovation in paper-based packaging Materials" at IIP, Patparganj Delhi on September 06, 2024 – Dr. Sanjay Tyagi and Sh. Alok Kumar Goel
- Training of Nodal Officers Swachhta Hi Seva (SHS) on IT Portal of SHS organised by IT Section, DPIIT on September 7, 2024 - Dr Nitin Endlay and Mr Satya Dev Negi
- On line training of Nodal Officers Swachhta Hi Seva (SHS) on IT Portal of SHS organised by IT Section, DPIIT on September 9, 2024 - Dr. Nitin Endlay and Mr Satya Dev Negi
- CPCB's Webinar on "Deliberation on the matter of Faecal pollution in river Ganga" on October 3, 2024 – Dr. Nitin Endlay
- Two days training workshop "Occupational Health & Safety of wood Handicraft Artisan in Hotel Royal Residency, Saharanpur organized by Shri Ram Institute for Industrial Research Delhi on October 4-5, 2024- Dr. Ashwini K. Dixit, Dr. Priti S.Lal, Dr. Arvind Kumar Sharma and Students of M.Sc(CPT)
- Orientation Module on Mission LiFE provided by Ministry of Environment, Forest and Climate Change by registering into iGOTKarm Yogi Portal of Department of Personnel and Training, Government of India and Capacity Building Commission during National Learning week on October 22, 2024 - Dr. Nitin Endlay
- International Conference on "Nano Materials and Green Technology for Sustainability" at Uttarakhand University (ICNMGT – 2024), Dehradun on October 25-26, 2024 - Dr. Sanjay Tyagi
- Two-day Joint Technological conference (JTC) on "Research and Development carried out related to textile and its industry application in "Suitability of bamboo, whole hemp and jute fiber for highly pure cellulose in Northern India Textile Research Association, Raj Nagar, Ghaziabad on October 24 - 25, 2024-Dr. Priti S. Lal ,Dr. Arvind Sharma and Ms. Gunjan
- Online brainstorming workshop on Forest Fires which was organized by Govind Ballabh Pant University of Agriculture and Technology (GBPUAT), Pant Nagar, Uttarakhand on November 15, 2024 Dr. Priti S Lal and Dr. Arvind Kumar Sharma
- Two-day zonal seminar on "Manufacturing Various Grades of Paper to Meet the Emerging Demand of Packaging Industry" organized by IPPTA at Sambhaji Nagar on November 16-17, 2024- Dr. Priti S Lal

- 7<sup>th</sup> International Exhibition & Conference on "Paper and Packaging Industry - Realities and New Opportunities" an International Seminar on South Paperex at International Trade Centre at Chennai on December 5-6, 2024- Dr. A.K. Dixit, Dr. Priti S Lal, Dr. Nitin Endlay and Dr. Sanjay Tyagi



*Dr Priti S Lal and Dr Nitin Endlay at Paperex South India, 2024*

- Half day workshop on "New Innovations in the Field of Paper and Paper Packaging" at DPT, IIT-Roorkee (Saharanpur Campus) on December 13, 2024 – Dr. Sanjay Tyagi
- NITS, BIS, Noida to attend the "ISO Onsite OSD Training Programme for BIS India" on December 18, 2024- Sh. Alok Kumar Goel
- National conference on "Environment and Sustainability (NACONES-2025) at Kurukshetra University, Haryana on January 24, 2025- Dr. Shubhang Bhardwaj
- Training on "Navigating the Digital Highway: Safeguarding the Online Journey" organized by Ministry of Electronics and Information Technology (MeitY) to commemorate Safe Internet Day on February 11, 2025- Dr. Nitin Endlay and Mr N.K. Naik
- Online training program organized by DPIIT on e-office on February 12, 2025- Sh. Alok Kumar Goel
- On line training on GOVINTRANET portal Organized by IT section DPIIT on February 12, 2025 -Dr. Nitin Endlay
- BIS workshop of technical committee of CHD-15 paper and paper products at IIT Roorkee in February 13, 2025 -Dr. Priti S Lal and Dr. Sanjay Tyagi

- One day International conference "Sustainable solutions using jute, Abaca, Coir, Kenaf, Sisal (JACKS) and Allied fibres held at Bharat Mandapam, New Delhi on February 15, 2025-Dr.Priti S Lal and Dr. Arvind Kumar Sharma



*Glimpse of Conference*

- 2 days Bharat Tex sponsored by National Jute Board at Bharat Mandapam, Pragati Maidan, New Delhi to set up the Stall of CPPRI from February 16-17, 2025- Sh. Alok Kumar Goel



*Dr. Priti S. Lal, Dr. Arvind Kumar Sharma and Mr. Deepak Sharma during the event*

- 1<sup>st</sup> International conference on "Carbon Market- Prakriti 2025 (Promoting Resilience, Awareness, Knowledge and Resource for Integrating Transformational Initiatives)" at Hotel Hayyat Regency, New Delhi organized by BEE, MoP in association with World Bank and International Emissions trading Associations (IETA) on February 24, 2025- Dr. Sanjay Tyagi
- 60<sup>th</sup> IPPTA AGM and Seminar, 2025 on "Improving Productivity and Quality through Emerging AI Technology" at Mohali Punjab from February 28, 2025 to March 01, 2025 – Dr. Sanjay Tyagi and Sh. Alok Kumar Goel



*CPPRI Scientists during the event*

- Webinar on "Safety Ensured: Safety is not an experiment, but a commitment" organized by Agilent on March 04, 2025- Dr. Jitender Dhiman
- Water Sustainability Conference 2025, organized by Bureau of Water Use Efficiency (BWUE), National Water Mission, Ministry of Jal Shakti, and The Energy and Resources Institute (TERI), at NDMC Center on March 12, 2025 – Dr. Nitin Endlay



*Dr Nitin Endlay at Water Sustainability Conference 2025*

- One day dissemination seminar and conference on Products developed under the project Entitled "Development of jute-based composite for nonstructural applications organized by National Jute Board, Kolkata on March 20, 2025-Dr. Arvind Kumar Sharma



*Dr. Arving Kumar Sharma during the conference*

- 15<sup>th</sup> Asia Labex 2025 - Chandigarh (Exhibition for Laboratory Technology, Analysis, Biotechnology Research Instruments, Chemical and Consumables Products) on March 20-22, 2025 at Parade Ground, Sector-17, Chandigarh- Dr. Nitin Kumar



*Dr. Nitin Kumar at 15<sup>th</sup> Asia Labex 2025 Exhibition, Chandigarh*

- Webinar of "Achieve Mission Norms of Slope Fired Boiler using EGB Technology" organized by Enviro-pool on March 24, 2025 – Dr. Sanjay Tyagi

## PAPER PRESENTED AND LECTURES DELIVERED

Paper Presented in Workshops and Seminars as under:

- Gunjan Dhiman, Arvind Sharma, Deepak Sharma and Dr. Priti S. Lal presented poster in two-day Joint Technological conference (JTC) on "Research and Development carried out related to textile and its industry application in " Suitability of bamboo, whole hemp and jute fiber for highly pure cellulose in Northern India Textile Research Association, Raj Nagar, Ghaziabad on October 24-25, 2024
- Dr. Arvind Kumar Sharma presented paper in online brainstorming workshop on Forest Fires organized by Govind Ballabh Pant University of Agriculture and Technology (GBPUAT), Pant Nagar, Uttarakhand on November 15, 2024
- Dr. Priti Shivhare Lal presented a research paper titled "Optimized the use of Rice Straw for Sustainable Packaging Materials (Molded Products, Paper and Board) Production" in Indian Pulp and Paper Technical Association (IPPTA) held at Sambhaji Nagar Maharashtra on November 17, 2024



*Dr. Priti Shivhare Lal receiving Award for best paper presentation*

- Dr. Priti S. Lal presented paper on Application of Ozone Bleaching Technology- Indian Pulp & Paper Industry Perspective" at 7<sup>th</sup> International Exhibition and Conference on Pulp, Paper and Allied Industry at Chennai Trade Centre, Chennai, India on December 5-7, 2024

- Nitin Endlay, Mohd. Salim & Amitabh Tripathi presented Technical paper on Charter 3.0: 2024 – Need, Challenges, Implications for Indian Paper Industry, in Proceedings of Paperex South India 2024 Conference on December 05-07, 2024
- Dr Sanjay Tyagi published a technical Paper “Condition Diagnostic Techniques- A New Approach for Enhanced Profitability of Paper Industry” in proceedings of “Paperex South India”, 7th International technical conference on Pulp, Paper and allied industries with theme on “Paper and Packaging Industries: Realities and New opportunities” on December 5-7, 2025
- Dr. Priti S. Lal presented paper on Recycling of Paper and Reducing Single Use Plastic- A Path for sustainable Development during online International seminar on Sustainable development and climate change organized by Govt Digvijay Autonomous P.G. College Rajnandgaon on March 4-6, 2025

### **Lectures delivered in training programs under RSC-DCPPAI**

**9th Two Days RSC-DCPPAI Training Program on Innovative Approaches to Raw Material Preparation Pulping & Bleaching for Better Quality of Pulp in CPPRI on November 11-12, 2024**

- Dr. Priti S. Lal delivered lectures on “Factors related to Pulp Yield Improvement”
- Dr. Priti S. Lal delivered lectures on “Advancement in pulp Bleaching technology”

**10th RSC-DCPPAI Training Programme on “Wet End Chemistry and its Impact on Quality of Papermaking” at Kashipur on November 28-29, 2024**

- Dr. Sanjay Tyagi given a lecture on “Fillers and Chemicals Impacting Paper Quality and Wet end Optimization”
- Dr. Sanjay Tyagi given a lecture on “Fines – Characterization, Interaction and effects in Paper making stock”
- Sh. Satya Dev Negi given a lecture on “Stickies Management in RCF Based Mills”

**7th International technical conference “Paper and Packaging Industries: Realities and New opportunities” in “Paperex South India 2024” Chennai, on December 5-7, 2024**

- Dr. Nitin Endlay delivers lecture on Charter 3.0: 2024 "Need, Challenges, Implications for Indian Paper Industry"
- Dr. Sanjay Tyagi presented lecture (technical paper) on "Condition Diagnostic Techniques- A New Approach for Enhanced Profitability of Paper Industry"



*Presentation by Dr Nitin Endlay at Paperex South India*

**RSC-DCPPAI Training Program on Recent Developments in Chemical Recovery Operation at Central Pulp & Paper Research Institute, Saharanpur, U. P. on December 27, 2024**

- Dr. A. K. Dixit delivered lecture on "Black Liquor Properties and Their Importance in Chemical Recovery operation"
- Dr. A. K. Dixit delivered lecture on "Scaling and Deposition Issues in Chemical Recovery Operation"
- Mr. Anshu delivered lecture "Improved Properties of Bagasse-based Kraft Black Liquor after Heat Treatment"

**RSC-DCPPAI Training Program on Biorefinery and Biotechnology Approaches for Pulp and Paper Industry at Central Pulp & Paper Research Institute, Saharanpur, U. P. on March 26-27, 2025**

- Dr. A. K. Dixit delivered lecture on "Pulp and Paper mill based Biorefinery Approach for Sustainable Development"

- Dr. Priti S. Lal, delivered One lectures on "Value Addition to Rice Straw: Energy, Pulp and Paper"
- Mr. Kumar Anupam delivered a lecture on "Chemical Recovery based Biorefinery Approach in Pulp and Paper Industry"

## Others

- Dr. Priti S. Lal delivered Lectures in training Program to NGO Udyogini rural Women's on "Handmade paper making from agro-residues and waste paper" at CPPRI on September 23-26, 2024
- Dr. Priti S. Lal delivered lecture on Occupational Health Hazards in Wood Carving Industry, during two days training workshop on "Occupational Health & Safety of wood Handicraft Artisan in Hotel Royal Residency, Saharanpur organized by Shri Ram Institute for Industrial Research Delhi on October 4-5, 2024
- Mr. Kumar Anupam delivered a lecture on "Progress and Status of NABL Accreditation in Indian Paper Industry" in RSC-DCPPAI Training Program "Quality Management in Pulp and Paper Manufacturing" at Central Pulp & Paper Research Institute, Saharanpur, U. P. on October 25, 2024.
- Dr. Nitin Endlay delivers lecture on Cyber Security & Cyber Hygiene Awareness in Vigilance Awareness Week at CPPRI on November 5, 2024
- Dr. Sanjay Tyagi presented invited lecture (online) on 'Requirement and Availability of Food Grade Paper for Making Paper Plate/Paper Bowls' at KNHPI, Jaipur on January 31, 2025
- Ms. Anuradha V Janbade delivered lecture on the occasion of Women's Day Celebration at CPPRI in March 2025.
- Dr. Nitin Endlay delivers lecture on Water Use Efficiency in Pulp & Paper Sector - Trends & Strategies at Water Sustainability Conference 2025, organized by Bureau of Water Use Efficiency (BWUE), National Water Mission, Ministry of Jal Shakti, and the Energy and Resources Institute (TERI), at NDMC Center on March 12, 2025.



*Presentation by Dr Nitin Endlay Water Sustainability Conference*

- Ms Anuradha V Janbade delivered lecture on Productivity Enhancement through Biological Interventions in Pulp & Paper Industry during RSC- DCPPAI Training Program on Biotechnology and Biorefinery Approach in Paper Industry organized by CPPRI on March 18, 2025.
- Dr. Nitin Endlay delivers a lecture on Biomethanation Applications in Pulp & Paper Industry – Basics, Role of Biotechnology & Case Studies in Training Programme on Biorefinery & Biotechnological Applications.
- Ms. Anuradha V Janbade, Dr. A. K Dixit, Dr. Priti S. Lal and Dr. Nitin Endlay delivered lecture on the occasion of completion of 11 years of notification of the POSH Act, a talk session was organized at CPPRI. The objective of the talk show was to create awareness on the POSH Act, SHE -BOX portal and Gender Sensitization. As Chairperson of the Internal Complaints Committee, CPPRI- December 9, 2024

## REPRESENTATION IN EXTERNAL COMMITTEES

### Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India

- Member, Environment Appraisal Committee (EAC) Industry, Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India - Dr. Ashish Kumar

### Development Council for Pulp, Paper and Allied Industries

- Member-Secretary, Development Council for Pulp, Paper and Allied Industries - Dr. Ashish Kumar

### Research Steering Committee of Development Council for Pulp, Paper and Allied Industries

- Member-Secretary, Research Steering Committee of Development Council for Pulp, Paper and Allied Industries (Formerly Cess Committee) - Dr. Ashish Kumar

### International Organization for Standardization (ISO)

- Convener of ISO/TC 6/SC 2 /WG 25 (ISO Committee) for Surface Roughness Test Method – Sh. Alok Kumar Goel
- Expert of ISO/TC 6/SC 2 /WG 25 (ISO Committee) for Surface Roughness Test Method – Dr. Sanjay Tyagi
- Expert of ISO/TC 6/SC 2 /WG 30 (ISO Committee) for Tensile Properties Test Method – Dr. Sanjay Tyagi
- Expert of ISO/TC 6/SC 2 /WG 45 (ISO Committee) for Corrugated fiber board Test Method – Dr. Sanjay Tyagi
- Expert of ISO/TC 6/SC 2 /WG 50 (ISO Committee) for Sampling Test Method – Dr. Sanjay Tyagi



- Expert of ISO/TC 6/SC 2 /WG 130 (ISO Committee) for Printability testing Test Method – Dr. Sanjay Tyagi

### **Bureau of Indian Standards (BIS), New Delhi**

- Chairperson of Paper and its Product Sectional Committee CHD 15, Bureau of Indian Standard- Dr. Ashish Kumar
- Convener of alertPanel of Plain copier paper (CHD-15: P9), Bureau of Indian Standards (BIS)- Sh. Alok Kumar Goel
- Principal and alternate member of CHD 15 Committee of BIS for paper & paper product- Dr. Sanjay Tyagi and Sh. Alok Kumar Goel
- Principal and alternate member of CHD 16 Committee of BIS for paper & paper product. – Dr. Sanjay Tyagi and Sh. Alok Kumar Goel
- Convener of alert group of Paper and its Product Sectional Committee CHD 15, Bureau of Indian Standard- Dr. Sanjay Tyagi
- Principal Member of Bureau of Indian Standards (BIS) Committee: Water Quality for Industrial Purposes Sectional Committee (CHD 13)–Dr. Nitin Endlay
- Chairman Alert Panel of BIS CHD 13: P2 Water Treatment Chemicals of Water Quality for Industrial Purposes – Dr. Nitin Endlay

### **Bureau of Energy Efficiency (BEE)**

- Chairperson of working group formulated under Carbon Credit Rating Scheme-2023 CCTS for finalization of CHG-emission intensity for pulp and paper sector- Dr. Ashish Kumar
- Member of Sectoral Advisory Group (SAG) for supporting Bureau of Energy Efficiency in identification and implementation of low carbon / Energy efficient Technologies in BEE scheme- Dr Sanjay Tyagi

## Satia Industries Limited

- Represented CPPRI as Independent Director in Satia Paper mill Board of Directors-Dr. Priti Shivhare Lal

## Others

- Chairperson of R & D committee of Kumarappa National Handmade Paper Institute (KNPHI)- Dr. Ashish Kumar
- Editor-In-Chief of Indian Pulp & Paper Technical Association (IPPTA)- Dr. Ashish Kumar
- An expert member in committee constituted by NITI Ayog, New Delhi vide Office Memorandum Dated 17th May 2024 on Constitution of Expert Committee to review the Draft Techno-Commercial Report Titled "Strategy for the Development of Bamboo Value Chain- Towards Sustainability". Nominated as an Expert on behalf of CPPRI, among 14 members overall from different organizations in India- Dr. Priti Shivhare Lal
- Member of technical committee for the review of technical specification of Maplitho Paper for NCERT Text books.- Dr. Sanjay Tyagi
- Member of two committees formed for 'Special Campaign 4.0 for Institutionalizing Swachhata and Minimizing Pendency in Govt. offices' - Dr. Sanjay Tyagi
- Member of technical committee constituted for the evaluation of application for National energy Conservation Award 2024 (NECA) for paper and chloro- alkali sector formed by BEE, Ministry of Power, New Delhi- Dr. Sanjay Tyagi
- Member of expert group formed by CPCB for reviewing the criteria for Eco-mark for writing and printing paper under CHD15: WG 02 (working group on Eco- mark criteria). – Dr. Sanjay Tyagi
- Life Member of Society of Tropical Agriculture, New Delhi –Dr. Nitin Endlay
- Member Screening Committee of the Biotechnology Incubation Center, Himachal Pradesh University (BIC-HPU) – Dr. Nitin Endlay
- Expert Member of the Committee of Board of Studies for M.Sc (Environmental Management Course) of FRI (Deemed to be University) – Dr. Nitin Endlay



- Member Executive Committee Indian Pulp & Paper Technical Association—Dr. Nitin Endlay
- Advisory Board Member of Centre for Excellence Occupational Health, safety, Fire & Environment, GD Goenka University – Dr Nitin Endlay
- Member Technical Committee constituted by Uttar Pradesh Pollution Control Board to look into the representations received from Pulp & Paper Mills in context of Charter 3.0 – Dr Nitin Endlay
- Life Member of Indian Association for Air Pollution Control, New Delhi - Dr Nitin Endlay
- Life Member of Indian Pulp & Paper Technical Association (IPPTA) –Dr. Priti Shivhare Lal, Dr. Nitin Endlay and Mohd Salim

## PUBLICATIONS

List of Publications published during the year 2024-2025 is as under:

- Das, S., Aggrawal, R., Anshu, Anupam, K., & Dixit, A. K. (2024). Preparing materials for societal applications from pulp and paper mill black liquor. In *Nanotechnology in miniaturization: An emerging trend to fabricate future devices*. Cham: Springer Nature Switzerland (pp. 471–489).
- Das, S., Rani, A., Gahlot, M., Kapoor, S., Sisodia, N., & Sharma, A. (2024). Optimization of kraft pulping process for *Sesbania aculeata* (dhaincha) stems using RSM. *Nordic Pulp & Paper Research Journal*, 40(1), 47–59.
- Dhiman, G., Sharma, A., & Lal, P. S. (2024). Production of high purity dissolving grade pulp from bamboo (*Dendrocalamus strictus*) and eucalyptus and their comparison. *Inpaper International*, April–June, 121–181.
- Endlay, N., Salim, M., & Tripathi, A. (2024). Charter 3.0: Need, challenges, implications for Indian paper industry. In *Proceedings of Paperex South India 2024 Conference* (pp. 11–24).
- Lal, P. S., Sharma, A., Dhiman, G., & Kumar, A. (2024). Optimizing the use of rice straw for sustainable packaging materials (moulded products, paper and board) production. *IPPTA*, 36(3), 96–101.
- Lal, P. S., Sharma, A., & Kumar, A. (2024). Application of ozone bleaching technology: Indian pulp & paper industry perspective. In *Proceedings of the 7<sup>th</sup> International Exhibition and Conference on Pulp, Paper and Allied Industry* (pp. 135–140).
- Tyagi, S. (2024). Condition diagnostic techniques: A new approach for enhanced profitability of paper industry. In *Proceedings of Paperex South India, 7<sup>th</sup> International Technical Conference on Pulp, Paper and Allied Industries: Paper and packaging industries—Realities and new opportunities* (pp. 123–134).

## REPORTS

During the year 2024-2025 various reports were prepared by CPPRI Scientist Details are as under:

### **GPI Study**

- GPI Inspection Reports of 143 units were prepared by the different scientists of CPPRI in the year 2024-2025.

### **Raw Material, Pulping and Bleaching**

- Additive pulping for wheat straw and eucalyptus wood sample sponsored by Absolute Scientific Solutions Jagadhri, Distt. Yamuna Nagar (Haryana)
- Feasibility Study on Utilization of Bamboo for Production of Pulp and Paper in North East India sponsored by Kohinoor Pulp and Paper Private Limited, Assam
- Study of Ozone bleaching of mill pulp sponsored by HariharPolyfibre, Kumarapatnam, District Haveri, Karnataka.
- Production of Pilot Scale Whole Jute Dissolving Pulp For Viscose Fibre sponsored by National Jute Board, Govt. of India, New Delhi.
- Debarked Moringa for Preparation of Dissolving Grade Pulp sponsored by ABSTCL, Mumbai, Maharashtra.
- Utilization of annual grass for packaging grade pulp sponsored by Devi Energies, Hyderabad.
- Optimization refining Study of Aramid fibres sponsored by Mukesh Furnishings Private Limited, Panipat.
- ECF bleaching of Acacia following ODhot-EopDnD bleaching sequence sponsored by West Coast Paper Mill, Bangur Nagar, Dandeli.
- "ECF bleaching of Eucalyptus following ODhot-EopDnD bleaching sequence sponsored by West Coast Paper Mill, Bangur Nagar, Dandeli.
- Preparation of ~5 kg Dissolving grade whole jute pulp sponsored by Defence Materials & Stores Research & Development Establishment GT Road, Kanpur.

### **Evaluation of pulp for various fibre, physical and strength properties for following clients**

- Tradecom International Private Limited, New Delhi
- Visaka Industries Limited, Nalgonda, Post-Kukkadam, Telangana

- Sparten Pulp Private Limited, Ahmedabad, Gujarat
- Rhino Roofing Product Limited, Colombo, Sri Lanka
- Brown Overseas Private Limited, J. B. Nagar, Andheri-East, Mumbai
- CellpapMerkentile LLP, Mumbai, Maharashtra
- Sahyadri Industries Limited, Pune, Maharashtra
- Eco Tech Papers, Guwahati, Assam
- Everest Industries Limited, Bhagwanpur, Uttarakhand
- Century Pulp & Paper, Ghanshyam Dham, Lalkua, Distt. Nainital, Uttarakhand
- ACFA Industrial Company for Industry, Riyadh, Saudi Arabia
- Yash Pakka Limited, Ayodhya, Uttar Pradesh
- CellpapMerkentile LLP, Mumbai, Maharashtra
- Jolly Board Limited, Aurangabad, Maharashtra
- ACFA Industrial Company for Industry, Riyadh, Saudi Arabia
- National Botanical Research Institute, Lucknow, Uttar Pradesh
- Urvashi Pulp & Paper Mills Private Limited, Ankleshwar, Gujarat
- Everest Industries Limited, Bhagwanpur, Uttarakhand
- Brown Overseas Private Limited, J. B. Nagar, Andheri-East, Mumbai
- Shiva Handmade Paper, Haridwar, Uttarakhand
- Durga Handmade Papers, Biharigarh, Uttarakhand
- Tradecom International Private Limited, New Delhi
- Sparten Pulp Private Limited, Ahmedabad, Gujarat
- GVG Paper Mills Private Limited, Uduvalaipettai, Tamil Nadu
- Sri Balamurugan Papers & Boards, Tamil Nadu
- Srinivasa Papers Agencies Private Limited, Chennai, Tamil Nadu
- Uflex Limited, Packaging Division, Noida, Uttar Pradesh
- Rhino Roofing Product Limited, Colombo, Sri Lanka

### **Technical Know-How on Repulpability and papermaking Potential of Packaging Material used by fast Moving Consumer Goods Companies (FMCG) and Packaging Industries**

Total 25 Nos. of samples of packaging materials were tested for their repulpability and paper making potential. Following 16 reports were prepared.

- Intek Tape Private Limited, Bengaluru, Karnataka
- Pakka Impact Limited, Bengaluru, Karnataka
- Novateur Electrical & Digital System Private Limited, Sinnar, Maharashtra

- Yash Pakka Limited, Ayodhya, Uttar Pradesh
- Unilever Industries Private Limited, Mumbai, Maharashtra
- Cirkla Technologies Private Limited, Mumbai, Maharashtra
- Evergreen Sustainable Solution Private Limited, Yamuna Nagar, Haryana
- Elysium Industries India Private Limited, Jalalpore, Gujarat
- The Trash Company, Rajkot, Gujarat
- Aaum Paper Products Private Limited, Hulisdidegowdanadoddi, Karnataka
- Maxim Specialty Chemicals Private Limited, Greater Noida, Uttar Pradesh
- Greevos Biopack LLP, Rajkot, Gujarat
- Parksons Packaging Limited, Mumbai, Maharashtra
- CSIR- National Institute for Interdisciplinary Science & Technology, Thiruvananthapuram, Kerala
- ITC Limited PSPD, Secunderabad, Telangana
- Khanna Paper Mills Limited, Amritsar, Punjab

#### **Evaluation of Brightness and Fibre Properties on Different Furnish Blend of A-4 Copier Paper, Old News Paper and Old Book Stock**

- Gulshan Shri Balaji Tradelink, Nagpur, Maharashtra

#### **Stickies Profiling of OCC Fibre Line**

- Al Dhafra Paper Manufacturing Co. LLC, Abu Dhabi, UAE

#### **Evaluation of OBA Sample for E- Value**

- Shah Paper Mills Limited, Gujarat

#### **Wet end applications of "MFC" chemical @ 2% of GCC and testing of strength and optical properties of paper handsheets**

- Rajeev Chemicals Private Limited, Ghaziabad, Uttar Pradesh

#### **Application of Pulp dust in papermaking**

- Sun Plast, Kolkata, West Bengal

#### **Testing of Fillers (GCC Powder) for Abrasion loss**

- Kumaon Georesource Private Limited, Haldwani, Uttarakhand
- Gulshan Polyols Limited, Muzaffarnagar, Uttar Pradesh
- Pearl, Minechem, Udaipur, Rajasthan

### **Water Retention Value of Pulp**

- Naini Papers Limited, Kashipur, Uttarakhand
- Kuantum Papers Limited, Hoshiarpur, Punjab

### **Evaluation of 2 OBA Samples at Wet End**

- Krishna Industries, Ahmedabad, Gujarat

### **Poly Content in Poly Coated SBS Paper**

- Bhupendra Singh Negi, Dehradun, Uttarakhand

### **ZLD Feasibility Evaluation**

- Garjaya Papers Private Limited, Bazpur, Uttarakhand
- Harharmahadev Paper Mills LLP, Jabbar Tappa Mehdawal, Sant Kabir Nagar, Uttar Pradesh

### **ETP Performance Evaluation**

- Shree Bhageshwari Papers Private Limited Unit – 2, Muzaffarnagar, Uttar Pradesh
- Bindals Papers Mills Limited, Muzaffarnagar, Uttar Pradesh
- Tehri Pulp and Paper Limited, Unit-I, Muzaffarnagar, Uttar Pradesh
- Tehri Pulp and Paper Limited, Unit- II, Muzaffarnagar, Uttar Pradesh
- Garg Duplex & Papers Private Ltd, Muzaffarnagar, Uttar Pradesh
- Silverton Pulp and Papers Private Limited, Unit-I, Muzaffarnagar, Uttar Pradesh
- Silverton Pulp and Papers Private Limited, Unit-II, Bhopa Road, Muzaffarnagar, Uttar Pradesh
- Sidhbali Paper Mills Limited, Bhopa Road, Muzaffarnagar, Uttar Pradesh
- Meenu Paper Mills, Bhopa Road, Muzaffarnagar, Uttar Pradesh
- Tirupati Baalaji Fibers Private Limited Muzaffarnagar, Uttar Pradesh

### **Adequacy Assessment of Effluent Treatment Plant**

- Rayana Paper Board Industries Limited (Unit – I), Khalilabad, District Sant Kabir Nagar, Uttar Pradesh
- Kamakshi Paper Mill, Gajraula, Uttar Pradesh
- Cheema Papers Limited, Kashipur, Udhampur, Jammu and Kashmir
- Ramaa Shyama Papers Private Limited, Rajau Paraspur, Bareilly, Uttar Pradesh
- Sahota Papers Limited, Kashipur, Udhampur, Jammu and Kashmir
- Krishhnnaa and Sons Paper Mills Pvt. Ltd. ,Bazpur, Uttarakhand
- Star Paper Mills Limited, Saharanpur, Uttar Pradesh



## VISITS TO PAPER MILLS AND OTHER ORGANIZATIONS

- Dr. M. K. Gupta and Ms. Barnali Shome visited Udyog Bhawan, Delhi on April 1, 2024 to discuss the DCPPAI agenda and attend a meeting.
- Dr. M. K. Gupta visited CSIO, Chandigarh on April 3, 2024 to organize a training program for pulp and paper technical officers.
- Dr. A. K. Dixit visited CSIO and NITTR, Chandigarh for a meeting on April 3, 2024 regarding to organize a training program
- Dr. Nitin Endlay visited Uttar Pradesh Pollution Control Board, Muzaffarnagar on April 1, 8-10 april, 15-16 april, 18 april, 24-25 april and 30 april, 2024 for a joint inspection and compliance verification with the Uttar Pradesh Pollution Control Board under the paper industry project.
- Mohd Salim visited Uttar Pradesh Pollution Control Board, Meerut on April 4, 2024 for a joint environmental inspection of paper units in the Meerut region under the CPCB-GPI, 2024 project.
- Dr. M. K. Gupta and Ms. Barnali Shome visited High Court, Allahabad on April 13, 2024 to discuss with the lawyer.
- Mohd Salim visited Uttar Pradesh Pollution Control Board, Meerut on April 24, 2024 and April 30, 2024 for a joint inspection and compliance verification of paper industrial units in the Meerut region under the CPCB-GPI, 2024 project.
- Dr. M. K. Gupta visited NEERI Nagpur on April 25, 2024 for meetings with officials of NEERI, Nagpur.
- Dr. Sanjay Tyagi and Mr. Alok Kumar Goel visited Vanijya Bhawan, New Delhi on April 25, 2024 to attend a hybrid Technical Committee Meeting of CHD-15.
- Dr. M. K. Gupta and Dr. Nitin Endlay visited DPIIT, Delhi on April 30, 2024 to discuss with the Under Secretary regarding the RSC-DCPPAI meeting.
- Dr. M. K. Gupta and Dr. Nitin Endlay visited NEERI, Nagpur on May 1, 2024 to sign an MoU.
- Ms. Barnali Shome visited Central Administrative Tribunal and Ministry, Delhi on May 2, 2024 for a meeting at the Central Administrative Tribunal and Ministry.
- Dr. Arvind Kumar Sharma, visited FRI, Dehradun on May 6, 2024 to collect plants for the Mist Chamber.
- Dr. Nitin Endlay visited Rayana Paper Board Industries Limited (Unit-I), Khalilabad, District Sant Kabir Nagar, Uttar Pradesh on May 6, 2024 for ETP adequacy and CPCB Charter meeting.
- Dr. Sanjay Tyagi and Mr. Alok Kumar Goel visited Paper Section, DPIIT, PFMS Office, Shivaji Stadium, and BIS Manak Bhawan, Delhi from May 13 to 14, 2024 to attend a meeting related to CPPRI Funds, perform necessary work in the Paper Section, PFMS Office, Shivaji Stadium, and participate in the CHD-15, P-9 meeting as a convener.

- Dr. M. K. Gupta visited Jaipur on May 15, 2024 to participate in the General Body Meeting organized by KNHPI.
- Mr. Pankaj Kumar Goley visited FRI, Dehradun on May 24, 2024 to collect answer sheets of M.Sc. CPT students.
- Mrs. Anuradha Janbade and Dr. Nitin Kumar, visited Biodegradable Expo 2024, Noida on June 4, 2024 to attend the Biodegradable Expo 2024.
- Dr. Priti S. Lal, visited New Delhi to attend CII Seminar, on June 6, 2024 .
- Dr. A. K. Dixit visited CBI Office Ghaziabad, and NCCBM, Delhi on June 6, 2024 and to meet the Director at NCCBM.
- Dr. A. K. Dixit, visited NCCBM Ballabhgarh, DPIIT Delhi, and CBI Ghaziabad on June 10, 2024 for government work.
- Mr. Alok Kumar Goel and Dr. Sanjay Tyagi visited BIS Manak Bhawan, New Delhi on June 13, 2024 to attend a meeting of ISO/TC-6 as a convener.
- Mr. Kumar Anupam visited FRI, Dehradun on June 13, 2024 to submit answer sheets to FRI.
- Mr. Alok Kumar Goel and Mr. S. D. Negi visited IARPMA Office, New Delhi on June 26, 2024 to discuss and finalize the WPRPC project blueprint.
- Mr. N. K. Naik visited NCBM, Ballabhgarh, and Delhi on June 26, 2024 to discuss purchase-related issues with Mr. Amit Trivadi at NCBM.
- Dr. A. K. Dixit and Dr. Priti Shrivhare Lal visited NCCBM and DPIIT, Ballabhgarh/Delhi on July 2, 2024 to attend a UNIDO meeting.
- Dr. Priti S. Lal, Mr. Alok Kumar Goel and Mr. S. D. Negi visited IARPMA and One Step Greener, Vasant Vihar, Delhi on July 4, 2024 to meet with the S.G. of IARPMA and the Director of One Step Greener and visit the One Step Greener site.
- Dr. Priti Shrivhare Lal visited WPRPC and NJB, New Delhi on July 4, 2024 to attend WPRPC and NJB meetings.
- Dr. Priti Shrivhare Lal and Dr. Arvind Kumar Sharma visited FRI, Dehradun on July 9, 2024 to collect plants and plant cuttings and attend a meeting.
- Dr. Sanjay Tyagi visited BEE, New Delhi on July 12, 2024 to attend the 4<sup>th</sup> Sectoral Advisory Group meeting in Pulp and Paper Sector.
- Ms. Barnali Shome, A.O., visited Civil Court and Land Acquisition Office, Meerut on July 12, 2024 for a meeting at the Civil Court and Land Acquisition Office.
- Mr. Alok Kumar Goel and Dr. Sanjay Tyagi visited Noida on July 15, 2024 to attend a workshop and brainstorming session for technical committee members.
- Dr. A. K. Dixit and Dr. Nitin Endlay visited NCCBM, Ballabhgarh on July 18, 2024 to organize and attend the RSC DCPPAI meeting.
- Dr. Sanjay Tyagi and Mr. Alok Kumar Goel visited NCERT and BIS Manak Bhawan, New Delhi on July 24, 2024 to participate in a meeting related to NCERT tenders, attend the 33<sup>rd</sup> Technical Committee Meeting of CHD-15, and deliver a lecture in a workshop.



- Ms. Barnali Shome visited NCCBM, Ministry of Urban Housing Affairs, and BIS, Ballabghar on July 25, 2024 for a visit to NCCBM, the Ministry of Urban Housing Affairs, and BIS.
- Dr. Nitin Endlay visited Central Pollution Control Board, New Delhi on July 26, 2024 to participate in a meeting.
- Dr. Sanjay Tyagi visited Radex Stationery Private Limited, Dehradun on July 28, 2024 for pre-dispatch inspection of paper.
- Dr. Nitin Endlay visited Uttar Pradesh Pollution Control Board, Rudrapur/Khatima on August 6, 2024 for a joint inspection and compliance verification under the GPI-2024 project.
- Dr. A. K. Dixit, Dr. Priti Shivhare Lal, Mr. Alok Kumar Goel and Ms. Barnali Shome visited NCCBM, Ballabghar on August 8, 2024 for project discussion, to sign purchase-related files, submit a pre-receipt undertaking at DPIIT Paper Section, and visit NCCBM.
- Dr. A. K. Dixit visited Habited Centre, Delhi on August 8, 2024 to participate in a panel discussion at the NPC workshop.
- Ms. Barnali Shome and Mr. N. K. Naik visited NCCBM, Ballabghar on August 22, 2024 to discuss and obtain approval for purchase-related files from Dr. L.P. Singh, Director of CPPRI, and visit NCCBM.
- Dr. Sanjay Tyagi visited Sewa Bhawan, New Delhi on August 27, 2024 to attend the 5<sup>th</sup> meeting of CCTS.
- Dr. Priti Shivhare Lal and Dr. Arvind Kumar Sharma visited Ghaziabad on September 9, 2024 to discuss making native fibers from jute fiber and spinning.
- Mr. Kumar Anupam visited 4<sup>th</sup> All India Rajbhasha Sammelan, New Delhi on September 13, 2024 to participate in the 4<sup>th</sup> All India Rajbhasha Sammelan.
- Mr. Alok Kumar Goel visited Paper Section, DPIIT, New Delhi on September 19, 2024 to attend a meeting on CPPRI Budget (BE & RE) and perform necessary work related to the Paper Section, DPIIT, and WPRPC.
- Dr. Arvind Kumar Sharma and trainees of Udyogini visited Shankar Gram Udyog, Hapur on September 25, 2024 to Shankar Gram Udyog, Hapur.
- Mr. Alok Kumar Goel and Mr. N. K. Naik visited UPITS-2024, Noida/Ghaziabad from September 24 to 27, 2024 to set up and participate in a CPPRI stall at the International Trade Show – 2<sup>nd</sup> Edition.
- Mrs. Anuradha Janbade, Dr. Priti Shivhare Lal and Ms. Barnali Shome visited WPRPC Centre, New Delhi, and UP Trade Fair, Greater Noida on September 29, 2024 to serve as a Board Member, conduct interviews for staff.
- Dr. Nitin Endlay visited NCCBM, Delhi in September 2024 to organize and attend the online RSC-DCPPAI meeting.
- Dr. Ashish Kumar visited Udyog Bhawan and Vanijya Bhawan, Delhi on October 9, 2024 to meet the Joint Secretary for a general meeting and visit Industry House and Commerce House, Delhi, and meet Dr. L.P. Singh, former Director of CPPRI, at Ballabghar, Faridabad.

- Dr. Sanjay Tyagi visited CPWD Office, Roorkee on October 4, 2024 for a meeting.
- Mr. Alok Kumar Goel and Dr. Sanjay Tyagi visited BIS and Udyog Bhawan, Delhi on October 18, 2024 for a BIS panel meeting, to discuss official documents, attend the revision meeting of IS: 1848 (Part –I), and perform various related work at Udyog Bhawan, BIS, and WPRPC.
- Ms. Barnali Shome visited LA Court, Meerut on October 18, 2024 for a meeting at the LA Court.
- Dr. Ashish Kumar, Mr. Alok Kumar Goel and Dr. Sanjay Tyagi visited Udyog Bhawan, BIS Manak Bhawan, New Delhi on October 23, 2024 to meet the Joint Secretary for a general meeting, visited Industry House and Commerce House, Delhi, meet Dr. L.P. Singh, former Director of CPPRI, at Ballabhgarh, Faridabad, attended the 34<sup>th</sup> CHD-15 meeting, and perform departmental work at DPIIT.
- Dr. Priti Shrivhare Lal, Dr. Arvind Kumar Sharma and Mrs. Gunjan Dhiman visited Northern India Textile Research Association, Raj Nagar, Ghaziabad on October 24, 2024 to attend a technical seminar, for poster presentation, and attend a conference.
- Dr. A. K. Dixit and Dr. Sanjay Tyagi visited Uttarakhand University, Dehradun on October 26, 2024 to attend a conference and deliver an invited lecture/talk at an international conference.
- Dr. Sanjay Tyagi visited BEE, New Delhi on October 29, 2024 to attend a meeting of the technical committee for discussion on National Energy Conservation Awards (NECA) 2024.
- Mrs. Anuradha Janbade visited Vanijya Bhawan, New Delhi on November 4, 2024 to attend the RSC-DCPPAI Technical Committee meeting.
- Mr. S. D. Negi and Mr. Shubhang Bhardwaj visited BILT Graphic Paper Products Limited, Bhigwan, Pune, Maharashtra on November 5, 2024 for GeM pre-dispatch inspection of art paper.
- Dr. Ashish Kumar and Dr. A. K. Dixit visited New Delhi on November 6, 2024 to participate in a meeting organized by BEE.
- Dr. A. K. Dixit visited Vigilance Committee, Delhi on November 7, 2024 to participate in a program organized by the Vigilance Committee.
- Dr. Nitin Endlay visited Meenu Paper Mills, Bhopa Road, Muzaffarnagar on November 12, 2024 to prepare an ETP Performance Evaluation Report by collecting water samples and necessary documents.
- Dr. Nitin Endlay and Dr. Sanjay Tyagi visited Vanijya Bhawan, New Delhi on November 13, 2024 to participate in a meeting chaired by the Joint Secretary, DPIIT, on the Firm Level Demonstration of Innovative Technologies and Productivity Enhancement for the Indian Pulp & Paper Industry – Phase III project.
- Dr. Priti S. Lal visited Sambhaji Nagar on to attend IPPTA seminar and also visited Parasons Machinery, tableware plant.
- Mohd Salim visited Tirupati Baalaji Fibers Private Limited, Muzaffarnagar, Uttar Pradesh on November 18, 2024 to prepare an ETP Performance Report by collecting water samples and necessary documents from various mills.



- Mr. N. K. Naik, Mr. Pankaj Goley and Mr. KVVK Satya Sai visited RSC-DCPPAI Training Programme, Kashipur on November 18, 2024 to collect quotations for selecting the venue for the 10<sup>th</sup> RSC-DCPPAI Training Program.
- Dr. Sanjay Tyagi visited BEE, New Delhi on November 22, 2024 to attend a meeting of the technical committee for discussion on National Energy Conservation Awards (NECA) 2024.
- Mr. KVVK Satya Sai visited Court and DPIIT, Meerut/Delhi on November 22, 2024 to submit court proceedings in Meerut and attend a meeting in New Delhi to discuss audit paras.
- Mr. Shubhang Bhardwaj and Mr. Kuldeep Sharma visited Satia Paper Mill, Muktsar, Punjab on November 25, 2024 for GeM pre-dispatch inspection of Maplitho paper.
- Mr. KVVK Satya Sai and Mr. Himanshu Maheshwari visited Income Tax Office, Muzaffarnagar on November 26, 2024 to submit a challan for a demand notice received from the Income Tax Department.
- Dr. A. K. Dixit, Mr. S. D. Negi, Mr. N. K. Naik, Mr. Pankaj Goley and Mr. Kumar Anupam, visited RSC-DCPPAI Training Programme, Kashipur on November 27, 2024 to conduct and participate in the 10<sup>th</sup> RSC-DCPPAI Training Program on November 28-29, 2024.
- Mr. Alok Kumar Goel and Ms. Barnali Shome visited Ministry, DPIIT, Udyog Bhawan, New Delhi on November 27, 2024 for an audit meeting and to attend the 1<sup>st</sup> meeting of the Audit Ad-hoc Committee of DPIIT.
- Mr. Alok Kumar Goel and Dr. Sanjay Tyagi visited BIS Manak Bhawan, New Delhi on November 26, 2024 to attend a meeting for ISO/TC-6/SC2/WG-24 regarding 'Corrugated fiber board test method.'
- Dr. Ashish Kumar, Dr. A.K. Dixit, Mrs. Anuradha Janbade and Ms. Barnali Shome visited DPIIT, Udyog Bhawan, New Delhi on December 3, 2024 to participate in a meeting with Mr. N.K. Wadhwa, Director of DPIIT, and the Director, Paper Section regarding CPPRI Recruitment Process.
- Dr. A. K. Dixit, Dr. Priti Shivhare Lal, Dr. Nitin Endlay and Dr. Sanjay Tyagi, visited Paperex 2024 and CHD-16 Meeting, Chennai on December 3, 2024 to attend a conference, present a paper at the Paperex 2024 technical conference, and attend the CHD-16 meeting.
- Mr. S. D. Negi and Dr. Shubhang Bhardwaj visited K. R. Pulp & Paper, Shahjahanpur, and Moradabad on December 4, 2024 for GeM pre-dispatch inspection of Maplitho paper.
- Dr. Sanjay Tyagi attended online meeting as on December 10, 2024 on "Tax free paper import dumping from ASEAN countries."
- Dr. Nitin Endlay visited Lalkuan on December 10, 2024 to prepare a report on no increasing pollution load after capacity expansion by collecting data and information.
- Dr. Sanjay Tyagi and Mr. Alok Kumar Goel visited Vanijiya Bhawan, New Delhi on December 11, 2024 to attend a meeting chaired by Sh. Sanjeev Ji, Joint Secretary, DPIIT, on import surge.
- Dr. Priti Shivhare Lal and Dr. Arvind Kumar Sharma visited FRI, Dehradun on December 12, 2024 to attend a meeting related to the project.

- Dr. Priti Shivhare Lal, Mrs. Anuradha Janbade, Mr. Alok Kumar Goel and Ms. Barnali Shome visited WPRPC, Delhi on December 12, 2024 to conduct interviews for JRF selection, conduct a walk-in interview, and participate as an Interview Board member.
- Mr. Alok Kumar Goel visited WPRPC, Patparganj, Delhi on December 13, 2024 as an internal member in the Selection Committee for the engagement of project staff under WPRPC.
- Dr. Shubhang Bhardwaj and Mr. Kuldeep Sharma visited K. R. Pulp and Paper, Shahjahanpur on December 13 and December 18, 2024 for GeM pre-dispatch inspection of Maplitho paper.
- Dr. Priti Shivhare Lal visited Patsan Bhawan, Kolkata on December 15, 2024 to attend an NJB meeting.
- Dr. Shubhang Bhardwaj and Mr. Kuldeep Sharma visited K. R. Pulp and Papers Limited, Jalalabad, Shahjahanpur on December 18, 2024 for GeM pre-dispatch inspection of Maplitho paper.
- Mr. Kumar Anupam visited FRI, Dehradun on December 19, 2024 to submit answer sheets and question papers of M.Sc. (CPT) students.
- Dr. Ashish Kumar, Dr. Priti Shivhare Lal, Mrs. Anuradha Janbade, Dr. Nitin Endlay, Dr Sanjay Tyagi, Mr. Alok Kumar Goel and Mohd Salim visited RSC DCPPAI Meeting, Vanijya Bhawan, New Delhi on December 26, 2024
- Dr. Nitin Endlay visited Har har mahadev Paper Mills LLP, Jabbar Tappa Mehdawal, Sant Kabir Nagar, Uttar Pradesh in 2024 to prepare an ETP Performance Report by collecting water samples and necessary documents.
- Dr. Nitin Endlay, Mr. Mohd Salim, Mr. Satya Dev Negi, Dr. Arvind Sharma, Dr. Shubhang Bhardwaj, Dr. Jitender Dhiman, Mr. Amitabh Raj Tripathi, Mr. Sandip Kumar, Mr. Ajay Parmar, Mr. Deepak Sharma and Mr. Ajay Kumar, visited 143 Grossly Polluting Industries located in Uttarakhand, Uttar Pradesh, and Haryana in 2024 for environmental inspections and compliance verification under the GPI project.
- Mr. Kumar Anupam visited Bindals Papers, Muzaffarnagar on January 3, 2025 to collect black liquor samples.
- Dr. Ashish Kumar, Dr. Sanjay Tyagi and Mr. Alok Kumar Goel visited Vanijya Bhawan, New Delhi on January 6, 2025 to participate in the QCO meeting (IS: 1848 and IS: 4658) chaired by Sh. Sanjeev Ji, Joint Secretary, DPIIT.
- Dr. A. K. Dixit and Mr. Kumar Anupam visited PSCST, Chandigarh/Hoshiarpur on January 6, 2025 for a meeting and visit.
- Dr. Nitin Endlay and Mohd Salim visited Kamakshi Paper Mill, Gajraula, Uttar Pradesh on January 8, 2025 to prepare an ETP Adequacy Report by collecting water samples and necessary documents.
- Ms. Barnali Shome visited LA Court, Meerut on January 8, 2025 for a meeting at the LA Court.
- Dr. Sanjay Tyagi attended online meeting on January 9, 2025 to attend the 1st technical committee meeting to develop technical criteria for paper products under the chairmanship of the Member Secretary, CPCB.



- Mr. Alok Kumar Goel visited online on January 11, 2025 to attend a meeting with UBQ to discuss the best possible ways to provide technical assistance to UBQ.
- Dr. Shubhang Bhardwaj and Mr. Manoj Kumar visited K. R. Pulp and Papers Ltd., Jalalabad, Shahjahanpur on January 12, 2025 for GeM inspection of Maplitho paper.
- Dr. Ashish Kumar, Dr. A. K. Dixit, Dr. Sanjay Tyagi and Mr. S. D. Negi visited WPRPC, New Delhi on January 13, 2025 to participate in meetings organized by BEE and BIS, and for training and interaction with newly recruited project associates and field assistants at the WPRPC Centre.
- Mrs. Anuradha Janbade visited IIT Delhi on January 17, 2025 to discuss the availability of strains.
- Dr. Ashish Kumar and Dr. Sanjay Tyagi visited Vanijya Bhawan, New Delhi on January 20, 2025 to attend a meeting to review the progress of projects under UNIDO-India CP 2018-22.
- Dr. Priti Shivhare Lal and Dr. Arvind Kumar Sharma visited Naini Papers Limited, Kashipur on January 21, 2025 to discuss the project and study pulping and bleaching of mixed hardwood raw material.
- Dr. Nitin Endlay and Mohd Salim visited Ramaa Shyama Papers Private Limited, Rajau Paraspur, Bareilly, Uttar Pradesh on January 21, 2025 to prepare an ETP Adequacy Assessment Report by collecting water samples and necessary documents from paper mills.
- Dr. Nitin Endlay and Mohd Salim visited Sahota Papers Limited, Kashipur, Udhampur on January 22, 2025 to prepare an ETP Adequacy Assessment Report by collecting water samples and necessary documents from paper mills.
- Mr. Shubhang Bhardwaj visited Kurukshetra University, Haryana on January 24, 2025 to attend and give a presentation.
- Mr. Alok Kumar Goel and Mr. Himanshu Maheshwari visited Income Tax Office, Muzaffarnagar on January 29, 2025 to submit a response to a TDS notice.
- Dr. A. K. Dixit visited NPTINR (BEE), New Delhi on January 30, 2025 to deliver a lecture in a training program.
- Mr. Alok Kumar Goel and Mr. S. D. Negi visited Paper Section, DPIIT, Udyog Bhawan Delhi on January 31, 2025 to submit official documents, review the progress of the project, and visit the WPRPC Centre.
- Dr. Arvind Kumar Sharma visited Panipat on January 31, 2025 to bring Cocopeat from Panipat.
- Dr. A. K. Dixit and Mr. Kumar Anupam visited IIP, Dehradun on February 5, 2025 to deliver an invited lecture at Dolphin Institute and submit MSc (CPT) copies and work at IIP.
- Dr. A. K. Dixit, Dr. Priti Shivhare Lal and Dr. Arvind Kumar Sharma visited New Delhi on February 6, 2025 for a meeting under the RSC-DCPPAI project and a meeting on report preparation.
- Dr. Ashish Kumar visited Udyog Bhawan, New Delhi on February 12, 2025 to discuss with Mr. N.K. Wadhwa, Director of DPIIT, in the Paper Section.

- Dr. Priti Shivhare Lal and Dr. Arvind Kumar Sharma visited Bharat Tex 2025, Bharat Mandapam, Pragati Maidan, Delhi on February 13-16, 2025 to attend Bharat Tex 2025.
- Dr. Sanjay Tyagi visited DPT, IIT, Roorkee (Saharanpur Campus) on February 13, 2025 to attend a meeting of CHD-15 "Paper and its Product."
- Mr. Alok Kumar Goel visited Bharat Texpo, Bharat Mandapam, Pragati Maidan, Delhi on February 15, 2025 to attend Bharat Texpo.
- Dr. Sanjay Tyagi visited K. R. Pulp and Paper Mills, Shahjahanpur on February 17, 2025 for pre-dispatch inspection of paper.
- Dr. Priti Shivhare Lal and Dr. Arvind Kumar Sharma visited Naini Papers Limited, Kashipur on February 21, 2025 to discuss the project and study pulping and bleaching of mixed hardwood raw material.
- Dr. Sanjay Tyagi attended online meeting on February 21, 2025 to attend a meeting for discussion on the UNIDO paper Phase-III project.
- Mr. KVVK Satya Sai visited Income Tax Office and WPRPC Centre, Ghaziabad/Delhi on February 24, 2025
- Dr. Sanjay Tyagi visited Vanijya Bhawan, New Delhi on February 27, 2025 to attend a stakeholders meeting for listing paper sector items for Public Procurement, chaired by JS, DPIIT.
- Mr. S. D. Negi and Mr. Kuldeep Sharma visited K. R. Pulp and Paper, Shahjahanpur on February 27, 2025 for GeM inspection of Maplitho paper.
- Dr. Ashish Kumar, Mr. Alok Kumar Goel and Dr. Sanjay Tyagi visited IPPTA 60<sup>th</sup> AGM and Seminar, Mohali, Chandigarh on February 28, 2025 to participate in and attend the IPPTA seminar/workshop and 60<sup>th</sup> AGM.
- Mr. Kumar Anupam visited Amity University, Noida on March 7, 2025 for a meeting regarding project work.
- Dr. A. K. Dixit and Mr. Kumar Anupam, visited Delhi on March 5, 2025 to organize the RSC-DCPPAI training program and arrange the venue.
- Dr. Ashish Kumar, Director, visited Udyog Bhawan, New Delhi on March 6, 2025 to discuss with the Joint Secretary.
- Dr. A. K. Dixit visited CBI Office, Ghaziabad on March 11, 2025 for a meeting.
- Dr. A. K. Dixit, Dr. Nitin Endlay and Mohd Salim visited NDMC Convention Centre, New Delhi on March 12, 2025 to discuss the GPI project, deliver a lecture, and attend the Water Sustainability Conference-2025 organized by the National Water Mission, Ministry of Jal Shakti.
- Dr. A. K. Dixit visited Silverton Paper Mill, Muzaffarnagar on March 13, 2025 for a visit.
- Dr. Sanjay Tyagi visited Udyog Bhawan, New Delhi on March 13, 2025 to attend a meeting chaired by JS, DPIIT to discuss setting up a minimum import price for virgin multilayer paperboard (VPM) in India,
- Dr. A. K. Dixit visited Goa on March 16, 2025 to attend a training program.



- Dr. Arvind Kumar Sharma visited CRIJAF, Kolkata on March 19, 2025 to attend a seminar on hybrid jute.
- Dr. Nitin Kumar visited Expo 2025, Chandigarh on March 21, 2025 to attend Expo 2025.
- Mr. Alok Kumar Goel and Mr. S. D. Negi visited Apeejay Business Centre and WPRPC, New Delhi on March 24, 2025 to attend a meeting with stakeholders on sustainable collection and recycling pathways for end-of-life packaging and review the progress of the WPRPC project.
- Mohd Salim and Mr. Amitabh Raj Tripathi visited Star Paper Mills Limited, Saharanpur, Uttar Pradesh on March 25, 2025 for environmental inspection and sample collection.
- Dr. Sanjay Tyagi visited BIS, Manak Bhawan, New Delhi on March 26, 2025 to attend a technical committee meeting of TC: CHD 15: Panel P5.
- Dr. Nitin Endlay visited IIT, Delhi on March 27, 2025 to attend a meeting on Charter 3.0 organized by UPPCB, Lucknow.
- Dr. Sanjay Tyagi and Mr. Kuldeep visited K. R. Pulp and Paper, Shahjahanpur on March 28, 2025 for GeM inspection of Maplitho paper.

## M.Sc. AND Ph.D COURSE ACTIVITIES

### Prelude

Central Pulp and Paper Research Institute (CPPRI) offers academic programs in collaboration with Forest Research Institute (Deemed to be University), Dehradun, including the M.Sc. (Cellulose and Paper Technology) and Ph.D. courses.

The M.Sc. (CPT) program is structured as a two-year course. The first year is conducted at the Forest Research Institute, Dehradun, focusing on foundational subjects. The second year takes place at CPPRI, where students receive advanced training in key areas such as chemical recovery, bleaching technology, material and energy balance, paper properties, secondary fibre technology, specialty papers, and environmental pollution. Both theoretical instruction and hands-on laboratory training are provided by CPPRI scientists. As part of their curriculum, students also undertake a compulsory project in various domains of papermaking to enhance their research and practical skills.

In the Ph.D. program, students complete a mandatory six-month coursework at Forest Research Institute, Dehradun. Following this, the remainder of their doctoral research is carried out at CPPRI under the supervision and guidance of CPPRI scientists.

These programs are designed to nurture skilled professionals and researchers in the field of pulp and paper technology, contributing to the advancement of the industry and environmental sustainability.

### List of M. Sc. (CPT) Students

The M.Sc. (Cellulose and Paper Technology) batch for the academic session 2022–2024 comprised a total of 10 students. The names of the students in this batch are as follows:

- Ms. Anupama P. J.
- Ms. Anukriti Choudhry
- Mr. Jadhav Praphul
- Ms. Kalyankar Vaishnavi
- Mr. Ramanaboyana Sridhar
- Mr. Rudra Madhab Panda

- Ms. Shivani Singh
- Mr. Megavath Prathap
- Mr. Manish Behera
- Ms. Nishtha Sharma

### List of Ph.D Students

There are four students, currently enrolled in PhD at CPPRI. CPPRI is the designated Research Centre of Forest Research Institute (Deemed to be University), Dehradun. Details of these students along with their supervisor, co-supervisor and research topic are mentioned below in the table.

Name of PhD student	Research Topic	Supervisor & Co-supervisor
Mr. Mohd. Salim	Studies on Physico -Chemical Techniques for Treatment of Backwater to Achieve Near Zero Liquid Discharge in Recycled Fibre based Kraft Paper Mills	Dr. B. P. Thapliyal- Supervisor Dr. Nitin Endlay & Dr. Shivaker Mishra - Co-Supervisors
Mr. Kanishka Salwan	Preparation of Micro fibrillated and Nano fibrillated Cellulose from <i>Melia dubia</i> and its potential in paper making	Dr. B.P. Thapliyal - Supervisor Dr. Ravi Datt Godiyal & Dr. Sanjay Tyagi – Co-supervisors
Ms. Shruti Kona Das	Rheological Study of Wood and Non-Wood Black Liquor	Dr. A. K. Dixit - Supervisor
Ms. Gunjan Dhiman	Study on valorization of bamboo for production of various grades of pulp and paper	Dr. Priti S Lal - Supervisor Dr. Arvind Kumar Sharma – Co-supervisor

### Faculty

All administrative matters related to the M.Sc. (Cellulose and Paper Technology) and Ph.D. programs at CPPRI are managed by the Office of the Course Coordinator. Theoretical and practical sessions for the M.Sc. (CPT) course are conducted by CPPRI scientists and laboratory staff.

## Scholarships and Awards

M.Sc. (CPT) students Ms Shivani Singh and Mr. Manish Behra, first-year toppers in the girl and the boy category respectively, received scholarship of ₹ 25,000/- from M/s Star Paper Mills Limited, Saharanpur, Uttar Pradesh.

## CELEBRATION OF NATIONAL DAYS AND OTHER EVENTS

### Independence Day

The 78<sup>th</sup> Independence day of India was celebrated with great enthusiasm and patriotic fervor at the Central Pulp and Paper Research Institute (CPPRI), Saharanpur on 15th August, 2024. The event was organized at the Institute's premises and witnessed a long gathering of the employees, contractual and out sources staff along with their family members.

The celebration began at 8.00 am with the flag hoisting ceremony. Guard of Honor was carried-out by security supervisor and security staff to ceremonially invite the Dr. A.K. Dixit, as Chief Guest and to mark the beginning of the occasion. Dr. A.K. Dixit, Senior Scientist of the Institute hoisted the national flag, followed by the singing of the National Anthem by all attendees. Dr. A.K. Dixit then addressed the gathering, highlighting the importance of Independence Day and recalling the sacrifices of the freedom fighters. He also emphasized the role of science and research in nation building, particularly the contribution of CPPRI in the pulp and paper sector.

The program ended with a vote of thanks and sweet distribution.



*Glimpse of Independence Day*



*Glimpse of Independence Day*

## Republic Day

The 76<sup>th</sup> Republic Day of India was celebrated with great enthusiasm and patriotic fervor at the Central Pulp & Paper Research Institute (CPPRI), Saharanpur on 26<sup>th</sup> January 2025. The event was marked by the presence of the Director, Scientific staff, Administrative staff, contractual and outsource staff along with their family members.

The celebrations commenced at 8:00 AM with Guard of Honour by the Security Supervisor and security staff to ceremonially invite the Director, as Chief Guest and to mark the beginning of the occasion. The Director then unfurled the National Flag, followed by the rendition of the National Anthem. In his address, the Director highlighted the significance of Republic Day and the values enshrined in the Indian Constitution. He also spoke about CPPRI's contributions to the paper industry and its ongoing efforts in sustainable development and innovation.

The program concluded with a vote of thanks and distribution of light refreshments to all attendees.



*Glimpse of Republic Day*



*Glimpse of Republic Day*

## **Hindi Pakhwada**

Competitions, discussions and awareness programs were conducted in the institute to promote the use and dissemination of the official language, Hindi.

The program commenced with a message from the Director, who urged all officers, employees, and students to give priority to the use of Hindi in their daily work and to take an active role in its promotion.

At the institute level, essay writing, poetry, debate and poster competitions were organized in which employees, students and their family members participated with great enthusiasm. The winners were felicitated to encourage their interest and contribution toward the promotion of Hindi.

The objective of these activities was to convey the message that Hindi is not only a language of communication but also a powerful medium for expressing scientific work and research.

The program concluded with a prize distribution ceremony, during which all participants took a pledge to perform more of their official work in Hindi in the coming year. Apart from this The Hindi Rajbhasha Unit of the Central Pulp & Paper Research Institute has been actively contributing to the promotion of Hindi. The unit successfully organized meetings of the NARAKAS (Town Official Language Implementation Committee) on 16<sup>th</sup> September 2024 and 28<sup>th</sup> March 2025, in which representatives from all government departments of the city participated and played an active role in the proceedings



*Celebration of Hindi Pakhwada*

## RASHTRIYA EKTA DIWAS / RUN FOR UNITY

Rashtriya Ekta Diwas was commemorated at CPPRI with great enthusiasm highlighting the importance of national unity and integrity. The day commenced with a solemn pledge where CPPRI officials & staff affirmed their commitment to national integration and solidarity. Under the guidance of Dr. Ashish Kumar, Director, the entire staff participated in the event, which served as a powerful reminder of the significance of unity and inclusiveness in building a strong and harmonious society reflecting the organization's dedication to core values and community contribution.





*Glimpses of Rashtriya Ekta Diwas / Run for Unity*

## Constitution Day

CPPRI, Saharanpur, observed Constitution Day on 26<sup>th</sup> November 2024 to mark the adoption of the Indian Constitution. The event was organized with the aim of fostering awareness about the Constitution's significance and its values in shaping the nation. The program was attended by Director, Senior Scientists, employees, contractual and outsource staff, M.Sc. students, trainees etc.

The celebration began with a brief welcome address by the Director of CPPRI, who highlighted the importance of Constitution Day in recognizing the fundamental rights and duties that every Indian citizen holds. He stressed the role of the Constitution in establishing a democratic framework for the country, ensuring justice, liberty, equality, and fraternity.

Senior Scientists had also expressed their views stressing the significance of the Constitution Day and its effect in the present perspective of the society.

On the occasion of the Constitution Day a speech competition was held among the staff/ M.Sc. students/ trainees etc. citing the importance of Constitution Day. Prizes were distributed to the participants.

The programme ended with a vote of thanks followed by refreshments.

## International Women's Day

International Women's Day was celebrated at the Central Pulp & Paper Research Institute (CPPRI), Saharanpur, with great enthusiasm and participation. The event was graced by Ms. Kumari Komal, BSA, Saharanpur, as Chief Guest, Ms. Millie Pant, Professor & Head, IIT Roorkee, as Guest of Honour, Director CPPRI and Senior Scientists. All the employees, contractual and outsource staff, M.Sc. students, trainees also attended the event.

As a part of the celebration, the following activities were held among all the Officers/ Officials/Contractual Staffs/ Students/Trainees of the Institute as below:

- (i) Handmade Posters Competition
- (ii) Slogan Competition
- (iii) Talk/Speech Competition

Higher authorities and the dignitaries distributed the prizes to the participants and winners.

The programme ended with a vote of thanks followed by refreshments.





*Glimpse of Women's Day Celebration*

## Other Activities

### Participation in the Indian Army's Surya Devbhoomi Challenge 2025

- Dr. Nitin Kumar, Scientist-B (Biotechnology Division) had the honor of participating in the Surya Devbhoomi Challenge 2025, a three-day high-altitude triathlon organized by the Indian Army's Surya Command in collaboration with the Uttarakhand Tourism Department.

Conducted in the Garhwal Himalayas, the event aimed to promote adventure tourism, revive traditional pilgrimage routes, and encourage sustainable development in remote border regions. The challenge comprised 110 km of mountain cycling on Day 1, followed by 37 km and 43 km trail runs on Day 2 and Day 3, respectively—starting from the Nellong valley, Gangotri and concluding at Sonprayag. Dr. Nitin successfully completed this gruelling endurance event alongside Indian army commandos and civilian athletes, and also secured a top-10 finish in his age category.



Finishers medal (Left); Dr. Nitin on his first Day of the challenge (Right)



Participants and Organisers of the Surya Devbhoomi Challenge 2025

## SWACHHATA - HI - SEWA AND SPECIAL CAMPAIGN 4.0

The **Swachhata Hi Seva (SHS)** and **Special Campaign 4.0** have successfully mobilized individuals, organizations and communities to promote cleanliness, hygiene, and waste management across various regions. Through a series of targeted activities, the campaign aimed to foster a sense of responsibility and participation in maintaining a clean and healthy environment.

### Activities Carried Out Under Special Campaign 4.0 and Swacchta Hi Seva( Shs) Camapaign

- Mobilization of CPPRI officials, ground staff, Safai Mitra and School teachers for Swachhata Abhiyan.
- Cleanliness drive at a Government Primary School, Saharanpur.
- Identification and Transformation of Cleanliness Target Units (CTU).
- Cleanliness drive at Office Premises.
- Cleanliness drive at CPPRI Residential Colony.
- Swachhata Pledge on 2<sup>nd</sup> October.
- Education and awareness among school/college children on importance of source segregation of wastepaper and its proper collection.
- Workshop in a village panchayat and for villagers on cleanliness and its benefits.
- Poster and Essay Competition on swachhata among students.
- Felicitation of Safaimitra of CPPRI and Primary School.
- Distribution of prize/ certificates for the winner of the competition.
- Digitalization of Physical Files .
- Ensuring ending of pendency of Public Grievances.
- Organised Blood Donation Camp at CPPRI on September 17, 2024 as per directives of Ministry of Family and Health Welfare & Ministry of Commerce and Industry under the Campaign Theme 20 Years of Giving : Thank You Blood Donors.
- Disposal of Scrap and Redundant material leading to freeing of approx. 4000 sq ft space and generation of INR 1.62 Lakhs revenue.

## Glimpses of Activities Carried out under Special Campaign 4.0 & Swacchta Hi Seva (SHS) Camapaign



*Ek Ped Maa Ke Naam - Tree Plantation Drive at CPPRI*



*Distribution of Note Books to a Government Primary School Children in a Village at Saharanpur*



*Cleanliness drive at Government Primary School in a Village at Saharanpur*



*Plantation Drive at Government Primary School in a Village at Saharanpur*



*An Awareness Workshop on Various Welfare & Self Employment Schemes conducted by Official from CDO, Saharanpur Office*



*Felicitation of Safai Mitra*



*Felicitation of Participants of Poster & Debate Competition*



*Medical Check Up Camp Organised for Safai Mitra under Swachhta Hi Seva Activities in collaboration with ESI Hospital*



*Glimpses of Blood Donation Camp Organised at CPPRI*



*Identification & Cleaning of Cleanliness Target Unit (CTU) identified in near by Villages of Saharanpur*



*Medical Camp organised in collaboration with Rotray Club under SHS 2024 Activities*



*Cleanliness Drive at CPPRI on October 2, 2024*

## **INTERNAL COMPLAINT COMMITTEE (ICC) OF CPPRI**

### **1. Introduction**

The Central Pulp & Paper Research Institute (CPPRI) is fully committed to providing a safe, secure, and respectful work environment for all its employees, in alignment with the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013, commonly known as the POSH Act. As per the provisions of the Act, CPPRI has constituted an Internal Complaints Committee (ICC) to address complaints related to sexual harassment at the workplace.

### **2. Constitution of the Internal Complaints Committee (ICC)**

The ICC at CPPRI is constituted in accordance with Section 4 of the POSH Act, comprising:

- Presiding Officer: A senior woman employee of the Institute
- Members: Representatives from different departments and staff levels
- External Member: A member from an NGO or association committed to the cause of women or familiar with issues relating to sexual harassment

At present the constitution of ICC of CPPRI is as under

- Mrs. Anuradha V Janbade , Chairperson
- Dr. A.K.Dixit, Member
- Shr. Alok Kumar Goel , Member
- Mrs. Sheel Aeron, Member

The committee is reconstituted as per statutory requirements and functions with confidentiality, neutrality and in strict adherence to the due process established by law.

### **3. Responsibilities and Activities of the ICC**

The ICC at CPPRI is entrusted with the following key responsibilities:

- Receiving and redressing complaints of sexual harassment
- Conducting inquiries in a time-bound manner as per the procedures laid down in the Act

- Recommending appropriate actions to be taken based on inquiry findings
- Organizing awareness programs, training and sensitization workshops for employees
- Ensuring a zero-tolerance approach toward sexual harassment

#### **4. Awareness and Sensitization Programs**

To create a workplace free from discrimination and harassment, CPPRI organized various awareness and training programs during the year. These included:

- Workshops and orientation sessions for new employees on the provisions of the POSH Act
- Sensitization seminars led by external legal and gender experts
- Posters and circulars displayed at prominent locations to disseminate information about ICC, its members, and complaint procedures
- On the occasion of completion of 11 years of notification of the POSH Act on December 9, 2024, a talk session was organized at CPPRI. The objective of the talk show was to create awareness on the POSH Act, SHE-BOX portal and Gender Sensitization. As Chairperson of the Internal Complaints Committee, CPPRI, a talk was delivered by Ms Anuradha V Janbade, on the provisions of the POSH Act. During the occasion Senior scientists Dr. A. K Dixit, Dr. Priti S. Lal and Dr. Nitin Endlay, also delivered talks on Gender Sensitization.

#### **5. Complaints and Redressal (Reporting Year: 2024–25)**

During the reporting period, the following status is noted:

- Number of complaints received: NIL
- Number of complaints resolved: NIL
- Number of pending complaints: 02

All complaints were addressed with utmost sensitivity, confidentiality and within the prescribed timeline.

## VIGILANCE AWARENESS WEEK

The Vigilance Awareness Week 2024 was observed from October 28 to November 3, 2024 commemorating Sardar Vallabhbhai Patel's birth anniversary on October 31. The theme 'सत्यनिष्ठा की संस्कृति की संस्कृति से राष्ट्र की समृद्धि' ("Culture of Integrity for Nation's Prosperity") underscored the importance of integrity in public governance. CPPRI staff commenced the week by taking the integrity pledge, administered by Dr. A. K. Dixit, Chief Vigilance Officer. Various activities were conducted including an Awareness Gram Sabha on corruption and redressal measures and a debate competition on Corruption Eradication, aiming to promote transparency and integrity. Following capacity-building programs were also organized for CPPRI officers and staff:

Topic	Expert
Capacity Building Program on "Systems and Procedures"	Dr. Kawaljeet Singh Former Scientist-F & CVO, CPPRI
Capacity Building Program on "Cyber Hygiene and Security"	Dr. Nitin Endlay Head IT Department, CPPRI, Saharanpur
Capacity Building Program on "Ethics and Governance"	Shri S. C. Tyagi Controller of Administration (Retired) CBRI, Roorkee
Capacity Building Program on "Code of Conduct"	Mrs. (Major) Reeti Admin Department, IIT Roorkee
Capacity Building Program on "Procurement"	Shri Dinesh Kumar Store and Purchase Officer CSIR-IIP Dehradun



*Integrity Pledge Ceremony for Commencement of VAW 2024*



*"Awareness Gram Sabha" Program on the Menace of Corruption*



*Debate Competition on Corruption Eradication*



*Capacity Building Program on Systems & Procedures*



*Capacity Building Programs on Cyber & Hygiene Security*



*Capacity Building Programs on Code of Conduct*



*Capacity Building Programs on Procurement*

## RIGHT TO INFORMATION ACT 2005

The Right to Information Act, 2005, is a significant legislative step towards promoting transparency and accountability in the functioning of public authorities. At the Central Pulp & Paper Research Institute (CPPRI), Saharanpur, the Act has been implemented with full commitment to ensuring openness, public participation and citizen empowerment.

### RTI Framework at CPPRI

To comply with the provisions of the RTI Act, CPPRI has designated officers at various levels to facilitate the information-seeking process effectively:

- First Appellate Authority : Dr.A.K.Dixit,
- Nodal Officer: Dr. Nitin Endlay
- Public Information Officer : Sh. Alok Kumar Goel
- Assistant Public Information Officer : Smt. Sarita Sharma

These officers are responsible for processing RTI requests, providing timely information and ensuring the provision of RTI Act 2005.

### RTI Requests and Appeals (Financial Year 2024–2025)

During the financial year 2024–2025, CPPRI received a total of 38 RTI applications and 04 first appeals. All the RTI applications and appeals were disposed of within the stipulated timeframe.

### Reporting and Compliance

In adherence to the statutory guidelines, quarterly reports on RTI applications and their status have been regularly submitted to the Central Information Commission (CIC). This proactive reporting ensures transparency in operations and enables oversight by the CIC.

### Transparency Audit

In compliance with the directive from the Department of Personnel and Training (DoPT), a transparency audit was also successfully conducted. The audit evaluated the level of voluntary

disclosure, compliance with proactive disclosure norms under Section 4 of the RTI Act and the overall transparency practices at CPPRI. The outcome of the audit reaffirmed the institute's robust RTI mechanism and its commitment to transparent governance.



# FINANCIAL REPORT 2024-25



P. S. Sethi & Co.  
Chartered Accountants

3<sup>rd</sup> Floor, Near Hotel JS Pearl  
Mayfair Business Park, Majra Dehradun  
Contact - 91- 9837562985

### **CENTRAL PULP & PAPER RESEARCH INSTITUTE**

An autonomous organisation registered under societies Act under the administrative control of the Ministry of Commerce & Industry (Govt. of India) POST BOX - 174, PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR (U.P.)

### **AUDITOR'S REPORT TO THE MEMBERS OF THE CENTRAL PULP AND PAPER RESEARCH INSTITUTE, SAHARANPUR (U.P.)**

We have audited the attached Balance Sheet of CENTRAL PULP AND PAPER RESEARCH INSTITUTE, SAHARANPUR (U.P.) as on 31.3.2025 and Income and Expenditure account & Receipt & Payment Account for the year ended on that date, which are in agreement with the books of accounts maintained by the Institute. These financial statements are the responsibility of the auditee's management. Our responsibility is to express an opinion on these financial statements based on our Audit.

We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit include examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

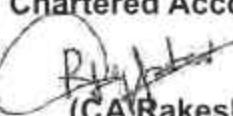
We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of audit. In our opinion proper books of accounts have been kept/ maintained by the Institute.

In our opinion and to the best of our information and according to the explanation given to us, the said account reads with notes thereon; give a true and fair view in conformity with the accounting principles generally accepted in India:

i) In case of Balance Sheet, of the state of affairs of the Institute as at 31.03.2025, and ii) In the case of Income & Expenditure Account of the deficit for the year ended on 31.03.2025.

Date: 16-09-2025  
Place : Saharanpur



**For P.S. Sethi & Co.  
Chartered Accountants**  
  
**(CA Rakesh Gupta)**  
M.Com, LLB, FC, DISA  
M. No. 402349



P. S. Sethi & Co.  
Chartered Accountants

3rd Floor, Near Hotel JS Pearl  
Mayfair Business Park, Majra Dehradun  
Contact - 91- 9837562985

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#### BALANCE SHEET AS AT 31.03.2025

PARTICULARS	Schedule	Amount (Rs.)	
		Current Year 2024-25	Previous year 2023-24
<b>CAPITAL FUND AND LIABILITIES</b>			
CAPITAL FUND	1	144541289.82	143267323.16
UN-UTILISED SP. PROJECT & CONSULTANCY	2	1124.25	1124.25
UNUTILISED GRANTS	3	22261774.96	36350792.96
CURRENT LIABILITIES AND PROVISIONS	4	52825635.52	50996679.54
<b>TOTAL</b>		<b>219629824.55</b>	<b>230615919.91</b>
<b>ASSETS</b>			
FIXED ASSETS	5	114145435.71	105900130.71
CURRENT ASSETS, LOANS, ADVANCES ETC.	6	105484388.84	124715789.20
<b>TOTAL</b>		<b>219629824.55</b>	<b>230615919.91</b>

The Schedules referred above form an integral part of the Balance Sheet.  
As per our separate report of even date.

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
Date: 16-09-2025

FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

  
DIRECTOR

  
HEAD ( F&A)

### CENTRAL PULP & PAPER RESEARCH INSTITUTE

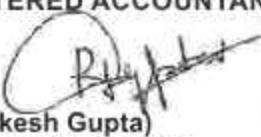
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### INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31.03.2025

PARTICULARS	SCHEDULE	CURRENT YEAR	Amount (Rs.)
		2024-25	2023-24
<b>A: INCOME</b>			
Income from Institutional & Consultancy fee	7	28626772.64	31764109.58
Grants from Govt. of India	8	74840015.00	82552564.00
Fees/Subscription	9	570000.00	339500.00
Interest earned	10	4425068.00	4504360.00
Other income	11	623592.59	784917.06
Closing Stock-Store Spares & Stationery		2928948.36	3747592.81
<b>TOTAL (A)</b>		<b>112014396.59</b>	<b>123693043.45</b>
<b>B: EXPENDITURE</b>			
Opening Stock		3747592.81	2867873.28
Establishment expenses	12	56801384.00	56240827.00
Administrative Expenses etc.	13	58243668.12	59332049.67
Depreciation for current year	5	15556418.00	13725610.00
<b>TOTAL (B)</b>		<b>134349062.93</b>	<b>132166359.95</b>
Excess of Expenditure over Income (B-A)		22334666.34	8473316.50
Excess of Income over Expenditure(A-B)		0.00	0.00

The Schedules referred above form an integral part of the Balance Sheet.  
As per our separate report of even date.

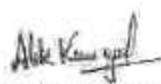
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(CA Rakesh Gupta)  
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FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

  
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### RECEIPT & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2025

RECEIPTS	CURRENT YEAR	PREVIOUS YEAR	PAYMENTS	CURRENT YEAR	PREVIOUS YEAR
<b>Opening Balance:</b>					
To Bank Balance on current account	11697088.25	33564919.48		48772331.00	44719057.00
To Deposit Accounts(Margin money against letter of Credit)	2137995.00	2940896.00		4331402.00	4168648.00
To Deposit Accounts	64166356.00	60166042.86		233640.00	3049804.00
<b>Grant Received:</b>				1139864.00	485028.00
To Grant in Aid,MoU,OOI	92000000.00	106133513.00		406236.00	301940.00
To Grant in Aid Development account	0.00	9000000.00			
<b>Interest Received:</b>					
To Int. from Staff on Convey. advance/BA	390148.00	31862.00		4834799.19	4645751.00
To Interest received from bank	2679114.00	4000314.00		273630.00	0.00
<b>Other Income:</b>				7747783.00	7834158.00
To Testing fee	10038641.02	18312507.48		By Legal & Professional Expenses	
To Consultancy fees	9887119.00	9659552.00		By Audit fees	
To Msc. Course Fee	30000.00	1283160.00		By Rent & Taxes	
To Literary Fee	21000.00	68000.00		By Postage & Telephone & communication	
To Training fees & expenses etc	555700.00	232900.00		By Printing & Stationery	
To Membership fee & Taxes etc.	40750.00	63250.00		By Traveling & Conveyance Exp.	
To Lease Rent	78725.00	62500.00		By Exp. on Seminar & Workshop	
To Hotel rent	4800.00	338750.00		By Audit fees	
To Miscellaneous Receipt	89738.29	79454.45		By Hospitality Expenses	
To License Fee	2455105.00	203360.00		By Legal & Professional Exp.	
To Other Income	22800.00	0.00		By News Paper	
<b>Advances</b>				By Training Exp.	
To House Building Advance	580000.00	57600.00		By Watch & Ward	
To Computer Advance	25000.00	37165.00		By Bank charges	
<b>Other Receipt:</b>				By Advertising	
To SGST	1022115.37	820372.45		By Testing Fee paid	
To CGST	1022115.37	820372.45		By Staff Car Maintenance	
To IGST	3479121.16	3539528.50		By Hanuman Dhan Abhiyan Exp.	
To Advance to Supplier	0.00	48790.00		By Swachh Bharat Abhiyan Exp.	
To L/c Recovery	0.00	13943.00		By Software/Expenditure on IT	
To Sale of Publication	0.00	10000.00		By Paper ex	
To Gen. Ad. Recovery	15285.00	270678.00		By Expenditure on NASL	
To T.A. Adv. Recovery	1040.00	2080.00		By Grant in Aid to Participating Agency	
To Sale old Scrap Paper	162825.00	29846.00		By Hanuman	
To Amount Recoverable	0.00	4142.00		By National Festival	
To Performance Guarantee	33698.00	780746.00		By Plantation & Gardening	
To Security Received from Salary Staff	291000.00	0.00		By Electric Consumable	
				By Consultancy fee paid	
				Fixed Assets/ Capital work in Progress	
				Other Payments:	
				By T.D.S. ( Parties)	
				By TDS - GST	
				By SGST	
				By CGST	
				By IGST	
				By Advance to Staff	
				By Advance to Suppliers	
				By Return of Grant	
				By Grant Forwarded to FRI	
				By Income Tax ECPF Trust	
				By Earmest Money Received	
				By Interest Received on Swap paid to DPIT	
				Closing Balances:	
				By Bank Balance on current account	
				By Deposit A/c/Margin money against L.C.	
				By Deposit Accounts	
<b>TOTAL</b>	211630338.14	252036403.47	<b>TOTAL</b>	211630338.14	252036403.47

As per our separate report of even date.

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
Date: 16-09-2025



FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

DIRECTOR

HEAD ( F&A )



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POST BOX - 174, PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR  
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE 1 - CAPITAL FUND

PARTICULARS	CURRENT YEAR		PREVIOUS YEAR	
	2024-25		2023-24	
<b>CAPITAL FUND</b>				
Balance as at the beginning of the year	143267323.16		124059379.66	
<b>Add:1:</b>				
Cess Project (Capital Purpose)	8570029.00		8858742.00	
Plan Project (Capital Purpose)	15038604.00		18822518.00	
	166875956.16		151740639.66	
<b>less:-</b>				
Balance of net expenditure transferred from the income & expenditure account	22334666.34	144541289.82	8473316.50	143267323.16
<b>BALANCE AS AT THE YEAR - END</b>		144541289.82		143267323.16

As per our separate report of even date.

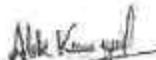
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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE - 2 - DETAILS OF UN-UTILIZED AMOUNT SPONSORED PROJECT/CONSULTANCY

SI. No.	NAME OF PROJECT	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
1	DBT-Technological improvement of Process	1124.25	1124.25
		<b>1124.25</b>	<b>1124.25</b>

As per our separate report of even date.

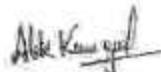
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PLACE: SAHARANPUR  
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FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

  
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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

**SCHEDULE - 3 - DETAILS OF UN-UTILIZED GRANT**

PARTICULARS	BALANCE 1.4.2024 AMOUNT	GRANTS RECEIVED & UTILISED DURING 2024-25					NET FUNDS UTILISED AMOUNT	UNSPENT BALANCE 31.3.25 AMOUNT	
		RECEIVED AMOUNT	REFUNDED AMOUNT	Advance from CPPRI (IRG)	CPPRI (IRG)	FORWARD AMOUNT			
Plan Grant	531013.00	2600000.00	531013.00	73000.00	0.00	5668675.00	19104531.00	1494.00	
Plan (Capital) a/c	177482.00	1500000.00	177482.00	39000.00	0.00	15039000.00	15036904.00	396.00	
<b>BASE LEVEL SUPPORT(NON-PLAN)</b>	<b>4800000.00</b>	<b>0.00</b>	<b>19000.00</b>	<b>100000.00</b>	<b>0.00</b>	<b>47949802.00</b>	<b>47949776.00</b>	<b>26.00</b>	
<b>Swatcha Action Plan</b>	<b>4153.00</b>	<b>3000000.00</b>	<b>0.00</b>	<b>14000.00</b>	<b>10000.00</b>	<b>0.00</b>	<b>3008153.00</b>	<b>3007469.00</b>	
<b>Cess Funded project</b>	<b>739558.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>739559.00</b>	<b>739559.00</b>	
A review study of IT-S-HS classification Bacterial Cellulose Production for Devoir Common Ecosystem for Technical Personnel in Pulp & Paper industry Demineralizing of Ozone Treatment Biotechnology Biopolymer approach for Improvement of Lime Application of Treated Effluent for Studies on Alternative Auto-catalytication Study on Capitalization of Agro-Residues Creation of Tissue Facility for Fund Fluctuating project Census Survey of the Indian Paper Industry A Syndicate and Economical Agreement for Treatment of Pulp & Paper Mill Cess core secretariat of Govt Organization Restoration Financial Assistance for Professionality Sorbic Acid & Process for Treatment	1446004.00 4359873.00 434788.00 12668691.00 715249.00 7910835.00 436554.00 265240.96 1361954.00 773374.00 1039852.00 225329.00 1600000.00 1610000.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1446004.00 4359873.00 434788.00 12668691.00 715249.00 579296.00 6141018.00 1069817.00 1361954.00 773374.00 1039852.00 588086.00 27140.00 198189.00 1426975.00 256873.00	1446004.00 4359873.00 434788.00 12668691.00 715249.00 1361953.00 6141018.00 1069817.00 1361954.00 773374.00 1039852.00 588086.00 27140.00 198189.00 1426975.00 256873.00	739559.00 4153.00
<b>Total =</b>	<b>36550792.96</b>	<b>92000000.00</b>	<b>708495.00</b>	<b>145000.00</b>	<b>110000.00</b>	<b>69668575.00</b>	<b>120710422.96</b>	<b>98448648.00</b>	
								<b>36350792.96</b>	

As per our separate report of even date.

**FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS**

  
(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
Date: 16-09-2025

**FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE**

  
DIRECTOR

  
HEAD (F&A)



P. S. Sethi & Co.  
Chartered Accountants

3rd Floor, Near Hotel JS Pearl  
Mayfair Business Park, Majra Dehradun  
Contact - 91- 9837562985

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POST BOX - 174, PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR  
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE 4 - CURRENT LIABILITIES AND PROVISIONS

S.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
<b>A.</b>	<b>CURRENT LIABILITIES AND PROVISIONS</b>		
	<b>CURRENT LIABILITIES:</b>		
	<b>Other Liabilities</b>		
1	Retention Money received	32792.00	32792.00
2	Security Received from Contractors	20652.00	20652.00
3	Earnest money received	93900.00	93900.00
4	Advance received for services	214855.00	214855.00
5	Security received from students	33000.00	33000.00
6	Security Received from Staff	20000.00	20000.00
7	SGST	124952.97	68266.97
8	CGST	124952.97	68266.97
9	IGST	106774.34	420749.96
10	Amount Payable to Staff	672.00	672.00
11	Security Received from Salary Staff	291000.00	0.00
	<b>TOTAL (A)</b>	<b>1063551.28</b>	<b>973154.90</b>
<b>B.</b>	<b>PROVISIONS:</b>		
1	Expenses payable	25975.00	25975.00
2	Pro for gratuity & encashment of leave	50564594.00	48649583.00
3	Performance Bank Guarantee	845759.00	812063.00
4	Fellow Ship payable	13000.00	13000.00
5	Income Tax (TDS) Payable	88563.00	234197.00
6	GST (TDS) Payable	224193.24	288706.64
	<b>TOTAL (B)</b>	<b>51762084.24</b>	<b>50023524.64</b>
	<b>TOTAL (A+B)</b>	<b>52825635.52</b>	<b>50996679.54</b>

As per our separate report of even date.

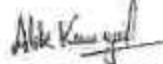
FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

  
(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

**SCHEDULE - 5 - FIXED ASSETS**

Sl. No.	PARTICULARS	GROSS BLOCK		NET VALUE ON 1.4.2024		ADDITION DURING THE YEAR		SALES DURING THE YEAR	COST AT THE YEAR END	%AGE OF Dep	DEPRECIATION FOR 2024-25	NET BLOCK AS AT THE 31.3.2025 YEAR-END
		TOTAL COST AS ON 1.4.2024	DEPRECIATION 31.3.2024	FIRST	SECOND	HALF						
<b>A. FIXED ASSTES</b>												
1. Land	16872204.10	0.00	16872204.10	0.00	0.00	0.00	16872204.10	0.00	0.00	0.00	16872204.10	16872204.10
2. Land Scaping Work in Progress	487684.45	0.00	487684.45	0.00	0.00	0.00	487684.45	0.00	0.00	0.00	487684.45	487684.45
3. Building	109657436.90	116372547.34	109657436.90	6715110.38	64464.00	1368856.00	6289511.96	6715110.38	10.5%	6715110.38	6715110.38	6715110.38
4. Office Equipment	1412444.90	148892345.86	1412444.90	4885191.96	249849.07	12000.00	460299.00	2982148.07	10.5%	580856.00	572853.96	486191.96
5. Furniture & Fixtures	7857076.31	10456926.38	7857076.31	401374.81	6913.25	0.00	0.00	6913.25	10.5%	275200.00	2716948.07	2498649.07
6. Hostel Furniture	2847611.00	5123813.84	2847611.00	227622.84	161893.00	16577923.00	0.00	227622.84	15%	341430.00	69.00	6222.25
7. Vehicle	289355056.47	330946710.41	289355056.47	5773522.29	26477.71	0.00	81328468.94	1073100.00	15%	1934772.84	1073100.00	1934772.84
8. Plant Machinery & Lab Equipment	5800000.00	5800000.00	5800000.00	494589.14	500000.00	5410.96	0.00	26477.71	15%	3972.00	22505.71	20477.71
9. Plant & Machinery at HNL	516739.11	536385.07	516739.11	120843.69	188.44	0.00	19645.96	188.44	15%	2847.00	4598.86	3410.66
10. Equipment with NCBM	2084916.68	2077974.99	2084916.68	17001.69	17001.69	0.00	17001.69	17001.69	15%	2550.00	14451.69	1884.44
11. Workshop equipment	72844433.72	60653180.86	72844433.72	1201252.86	188000.00	501694.00	1880916.86	1880916.86	15%	246013.00	1644903.86	1201252.86
12. Instruments	5223422.59	3439079.78	5223422.59	1784342.81	1784342.81	0.00	1784342.81	1784342.81	15%	26765.00	1516691.81	178342.81
13. D.G. Set	1104613.85	21218823.94	1104613.85	1219770.42	1219770.42	12015.00	109075.00	109075.00	15%	331620.00	1121913.42	219770.42
14. Air Conditioner & Cooler etc.	3426355.95	3426355.95	3426355.95	117265.00	1171934.00	0.00	4715554.95	4715554.95	40%	165183.00	3063719.95	3426355.95
15. Electrical Install & Equipment	985125.00	985125.00	985125.00	0.00	0.00	0.00	985125.00	985125.00	0%	0.00	965125.00	965125.00
16. Books and Periodicals	281206.00	496316.80	281206.00	320089.00	883914.00	24380.00	0.00	231368.20	10%	136244.00	21369.20	21369.20
17. Computers	1294003.00	1286684.00	1294003.00	643018.18	656665.82	0.00	0.00	982294.00	15%	136244.00	77250.00	889914.00
18. Capital Work in Progress	1436000.00	1436000.00	1436000.00	287200.00	1148800.00	0.00	0.00	1148800.00	40%	456520.00	656665.82	656665.82
19. Guest House Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	349855.00	15%	2622.00	689280.00	1148800.00
20. Horticultural Equipment	14286684.00	14286684.00	14286684.00	0.00	0.00	0.00	0.00	0.00	0.00	32333.00	32333.00	32333.00
21. Tubewell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22. Software	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23. Hostel Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL OF CURRENT YEAR</b>	<b>5622383701.79</b>	<b>456483571.08</b>	<b>505900130.71</b>	<b>580017.00</b>	<b>23221706.00</b>	<b>0.00</b>	<b>129701853.71</b>	<b>0.00</b>	<b>0.00</b>	<b>15556418.00</b>	<b>11414535.71</b>	<b>105900130.71</b>
<b>TOTAL OF PREVIOUS YEAR</b>	<b>5322354905.79</b>	<b>442757951.09</b>	<b>89636944.71</b>	<b>5546745.00</b>	<b>24442050.00</b>	<b>0.00</b>	<b>119625740.71</b>	<b>0.00</b>	<b>0.00</b>	<b>13725610.00</b>	<b>105900130.71</b>	<b>89636944.71</b>

As per our separate report of even date.

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

ANNUAL REPORT 2024-25

**FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE**

(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349  
PLACE: SAHARANPUR  
Date: 16-09-2025

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

#### SCHEDULE - 6 - CURRENT ASSETS, LOANS, ADVANCES ETC.

S.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
<b>A: CURRENT ASSETS:</b>			
1	<u>Inventories:</u>		
a.	Store & Spares	2302287.90	2966098.79
b.	Stationery & Misc. Store	628660.46	781494.02
2	Bank Balances: (With Scheduled Banks)		
a.	On Current Accounts	14863374.03	11697068.25
b.	On Deposit Accounts( margin money-against letter of credit)	2137995.00	2137995.00
c.	FDR for Bank Guarantee to UPNEDA	0.00	114794.00
d.	On Deposit Accounts on SDR	45025759.66	64051562.66
<b>B: LOANS, ADVANCES AND OTHER ASSETS:</b>			
1	<u>Loan to Staff:</u>		
a.	Interest bearing Advances		
a.	House Building Advance	0.00	580800.00
b.	Advances for computer	25955.00	50955.00
c.	Accrued Interest on Advances	24225.00	50180.00
2	Advances and other amounts recoverable in cash or in kind or for value to be received		
<b>ADVANCES:</b>			
a.	Purchase of Machinery and other work	10261019.94	10856800.94
b.	Advance Paid to DBT for Biological B.L. Project	50.00	50.00
c.	Advance to UPRNN	350000.00	350000.00
3	<u>Amounts recoverable in cash or in kind:</u>		
a.	T D S	13032358.43	11261112.42
b.	Cenvetavilment -Education Cess	1334.00	1334.00
c.	Cenvetavilment - H. Education Cess	290.00	290.00
d.	Cenvetavilment - K. K. Cess	4999.00	4999.00
e.	Sundry Debtors	10657694.17	13327918.17
f.	Plant Equipment of CPCB	2694541.00	2694541.00
g.	Lab Equipment-IPMA/Dev. Council	1350682.00	1350682.00
h.	Earnest Money Deposit	50.00	50.00
i.	N.P.C.	706.75	706.75
j.	Imprest	0.00	27418.70
k.	Advance to CPPRI Staff	64061.50	21434.50
l.	Security Deposits	1849206.00	1849206.00
m.	Telephone deposit under OYT	39139.00	39139.00
n.	DCPPAI	27000.00	27000.00
4	Advance paid to PBS Plan / DCPPAI Projects	145000.00	110000.00
	<b>TOTAL</b>	<b>105484388.84</b>	<b>124715789.20</b>

As per our separate report of even date.

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
Date: 16-09-2025



FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE - 7 - INCOME FROM INSTITUTIONAL AND CONSULTANCY FEE

S.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
1	Testing fee	18578810.64	19532964.58
2	Consultancy fee.	9704162.00	10879645.00
3	Library Fee	21000.00	68000.00
4	M.Sc. Course Fee	300000.00	1283500.00
5	Other Live Plant	22800.00	0.00
	<b>TOTAL</b>	<b>28626772.64</b>	<b>31764109.58</b>

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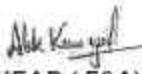
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### SCHEDULE - 8 - GOVERNMENT GRANT RECEIVED

S.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
1(a)	Government of India - Plan	19104631.00	15410154.00
(b)	Swatch Action Plan	3007469.00	2305847.00
2(a)	Government of India through Development Council for Pulp, Paper & Allied Industries-Non Plan	47949776.00	53761544.00
(b)	Core Secretariate for Development Council PP&A Industry	586086.00	952977.00
3	Government of India through Development Council for Pulp, Paper & Allied Industries for Cess Projects		
(a)	Continious Education Training of Tech Personal	877947.00	1621916.00
(b)	Statistical Data collection Cell for Indian Pulp & Paper Industry /Census survey	0.00	1415846.00
(c)	Biopolymeric approach for improvement of	0.00	510055.00
(d)	Study on Delignification of Agro residu	0.00	833210.00
(e)	Bacterial cellulose production for Driver	0.00	782617.00
(f)	Land Application of treated effluent	485296.00	3198084.00
(g)	Studied on Alternate Auto Causticization	1269518.00	385643.00
(h)	Organization Distemination	27140.00	274671.00
(i)	Finanical Assistance for Prefeasibility	179025.00	1100000.00
(j)	Scale up of a Process for Treatment	1353127.00	0.00
	<b>TOTAL</b>	<b>74840015.00</b>	<b>82552564.00</b>

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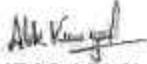
  
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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE - 9 - FEES/SUBSCRIPTION'S

SI.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
1	Membership fees	42500.00	65500.00
2	Training fees	527500.00	274000.00
	<b>TOTAL</b>	<b>570000.00</b>	<b>339500.00</b>

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### SCHEDULE - 10 - INTEREST EARNED

SI.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
1	<b>INTEREST EARNED</b>		
1	On Term Deposite with schedule Bank	4421034.00	4444931.00
2	On Loan to staff	4034.00	59429.00
	<b>TOTAL</b>	<b>4425068.00</b>	<b>4504360.00</b>

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### SCHEDULE - 11 - OTHER INCOME

SI.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
1	<b>OTHER INCOME</b>		
1	Hostel rent	48000.00	339750.00
2	Lease rent	78125.00	62500.00
3	Licence fee	245105.00	263360.00
4	Miscellaneous income	89737.59	79461.06
5	Sale of Publication	0.00	10000.00
6	Sale old Scrap Paper	162625.00	29846.00
	<b>TOTAL</b>	<b>623592.59</b>	<b>784917.06</b>

As per our separate report of even date:

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
Date: 16-09-2025



FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

DIRECTOR

HEAD ( F&A)



P. S. Sethi & Co.  
Chartered Accountants

3rd Floor, Near Hotel JS Pearl  
Mayfair Business Park, Majra Dehradun  
Contact - 91- 9837562985

### CENTRAL PULP & PAPER RESEARCH INSTITUTE

An autonomous organisation registered under societies Act under the administrative control of the Ministry of Commerce & Industry (Govt. of India)

POST BOX - 174, PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR  
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE - 12 - ESTABLISHMENT EXPENSES

SI.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
	<b>ESTABLISHMENT EXPENSES</b>		
1	Salary & Allowances	48772131.00	44748314.00
2	CPF Contribution	4331402.00	4168648.00
3	Gratuity Paid	1698134.00	4671420.00
4	Encashment of leave	1590481.00	2260505.00
5	Reimbursement of medical expenses	409236.00	391940.00
	<b>TOTAL</b>	<b>56801384.00</b>	<b>56240827.00</b>

As per our separate report of even date.

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

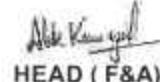
(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2025

### SCHEDULE - 13 - ADMINISTRATIVE EXPENSES ETC

S.No.	PARTICULARS	CURRENT YEAR 2024-25	PREVIOUS YEAR 2023-24
	<b>OTHER ADMINISTRATIVE EXPENSES ETC.</b>		
1	To Lab & Plant Maintenance	4801418.00	4812363.00
2	To Cartage & Freight	274610.00	6960.00
3	To Electricity and water	7747783.00	7834158.00
4	To Repair & Maintenance of Assets	16965404.00	15765707.00
5	To Rent & Taxes	1413448.00	1346144.00
6	To Postage & Telephone & Communication	75978.00	106974.00
7	To Printing & Stationery	842341.00	2026378.00
8	To Travelling & Conveyance Exp.	1974815.00	3456671.00
9	To Exp.on Seminar & Workshop	312415.00	457105.00
10	To Hospitality Expenses	309927.00	301982.00
11	To Legal & Professional Exp.	258369.26	137449.00
12	To News Paper Exp.	0.00	48453.00
13	To Training Expenses	307378.00	1115118.00
14	To Watch & Ward	10021287.00	8277728.00
15	To Bank charges	8077.86	7760.17
16	To Advertisement	107030.00	701457.00
17	To Testing Fee Paid	41300.00	4400.00
18	To Staff Car Maint	684192.00	987575.00
19	To Hindi Diwas Exp.	19969.00	66922.00
20	To Swachh Bharat Abhiyan Exp.	2761583.00	2630323.00
21	To Software Exp. / Expenditure on IT	745854.00	725408.00
22	To Paper Ex	9735.00	269854.00
23	To Expenditure on NABL	316554.00	137263.50
24	To Grant in Aid Paid	1160000.00	3770000.00
25	To Honorarium	65000.00	190000.00
26	To National Festival	52172.00	47973.00
27	To Plantation & Gardening / Horticulture	152170.00	415503.00
28	To International Yoga Day	1030.00	0.00
29	To Electrical Consumable	941910.00	556421.00
30	To Consultancy Fee Paid	51000.00	3129000.00
31	To Interest Received on Sweep Paid to DPIIT	5820918.00	0.00
	<b>TOTAL</b>	<b>58243668.12</b>	<b>59332049.67</b>

As per our separate report of even date:

FOR P.S. Sethi & Co.  
CHARTERED ACCOUNTANTS

(CA Rakesh Gupta)  
M.Com, LLB, FC, DISA  
M. No. 402349

PLACE: SAHARANPUR  
Date: 16-09-2025



FOR CENTRAL PULP & PAPER RESEARCH INSTITUTE

DIRECTOR

HEAD ( F&A)



P. S. Sethi & Co.  
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### **CENTRAL PULP & PAPER RESEARCH INSTITUTE**

An autonomous organisation registered under societies Act under the administrative control of the Ministry of Commerce & Industry (Govt. of India)  
POST BOX - 174, PAPER MILL ROAD, HIMMAT NAGAR, SAHARANPUR (U.P.)

#### **ANNEXURE**

Significant Accounting Policies & Notes on Accounts

##### **Overview:**

CPPRI is an autonomous organization registered under the Societies Act under the administrative control of Ministry of Commerce & Industry (Govt. of India) vide Government of India Gazette Notification dated 7.8.1979.

##### **Financial Accounts:**

The financial statements are prepared on the basis of historical cost convention and the Accounting Policies used in preparation of these financial statements confirm with the Accounting Principles generally accepted in India. The Institute follows the accrual method of accounting.

##### **A. Significant Accounting Policies:**

###### **1. Revenue Recognition:**

1.1 Testing fee is accounted for on accrual basis.

1.2 Lease Rent is accounted for on accrual basis.

1.3 Government Grant, Institutional fee, Sponsored Project, Membership fee, Training and Registration fees are accounted for on receipt basis.

###### **2. Inventory valuation:**

The inventory comprises of stores and spares are valued at cost.

###### **3. Fixed Assets:**

Fixed Assets are stated at cost less accumulated depreciation.

###### **4. Depreciation:**

4.1 Depreciation is provided on written down value methods, as per the rates specified in the Income Tax Act 1961.

###### **5. Government Grants:**

Government Grants received to the extent utilized for capital expenditure being added to the capital fund and to the extent utilized for revenue expenditure being treated as income in the

income and expenditure account and the un-utilized grant being carried forward. This is not as per the para no.14 of the Accounting Standard (AS-12) relating to Accounting for Government Grants. The Institute was advised to consider the guidelines on the subject in consultation with the concerned organizations /agencies for implementation. The Institute in reply has confirmed that other similar organizations / agencies are also following the same pattern. This point was also discussed by the concerned officer in the training imparted by National Institute of Finance Management, Govt. of India during the course of training.

**6. Foreign currency transaction:**

Transactions in foreign currency are accounted at the exchange Rate prevailing on the date of transaction in Indian Currency.

**B. Notes forming part of Accounts:**

**1. Information about the activities of the Institute:**

The Institute running under the Administrative control of Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (DPIIT), New Delhi is engaged to promote Research and other scientific work connected with Pulp, Paper & Allied Industries to establish and maintain Laboratories, Pilot Plant, and Workshop etc and to edit, print, publish and exhibit books, papers and periodicals bearing upon the said industries. Besides that the Institute also under take Cess funded projects and Sponsored projects from Govt. of India, Government Institutions and other Organizations also.

**2. Retirement Benefits:**

2.1 Provision for Gratuity payable on death/retirement of employees, during this year is Rs. 1698134.00 and for leave encashment is Rs. 1590481.00 payable to them based on accrual basis done by Central Pulp & Paper Research Institute, Saharanpur

**3. Current Assets Loans & Advance:**

Management has stated that the current assets, loans and advances have full value on realization in the ordinary course of Business.

4. Corresponding previous year figures have been re-grouped or re-arranged wherever necessary.

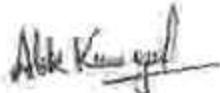
5. Total advances stand as on 31.3.2025 is Rs. 10611069.94 excluding advance to staff relates for advance against supply of equipments etc.

6. As per Schedule No.1 of the Balance-sheet, capital fund shows that Grant of Rs. 23608633.00 has been incurred as capital expenditure while as per Schedule No.5 of the Balance-sheet relating to fixed assets shows an addition of Rs.23801723.00 Regarding more capital expenditure of Rs. 193090.00 it is stated by the management that it is due to adjustment of suppliers bills and from letter of credits in the current year.

7. The management has confirmed that:

- 7.1 The provisions of all known income, expenditure and liabilities have been made.
- 7.2 No contingent liability exist on the date of Balance-sheet.
- 7.3 No significant event has occurred from the date of Balance-sheet and audit.

For Central Pulp & Paper Research Institute



Head (Finance & Accounts)



(DIRECTOR)

For P. S. Sethi & Co.  
Chartered Accountants



(CA Rakesh Gupta)  
M.Com, LLB, FCA, DISA  
M. No. 402349

Date: 16-09-2025

Place: Saharanpur

## STAFF LIST

### Scientific Staff

#### Scientist -F

- Dr. A. K. Dixit, M.Sc., Ph.D.

#### Scientist E-II

- Dr. Priti Shivhare Lal, M.Sc., Ph.D.
- Smt. Anuradha V. Janbade, M.Sc.
- Dr. Nitin Endlay, M.Sc., PGDIPM (PG Diploma in Industrial Pollution Management) Ph.D.
- Dr. Sanjay Tyagi, M.E., Ph.D., Accredited Energy Auditor
- Shri Alok Kumar Goel, M.Sc., Certified Energy Manager

#### Scientist E-I

- Shri Satya Dev Negi, M.Sc., PGDPPT (PG Diploma in Pulp and Paper Technology)

#### Scientist-B

- Dr. Arvind Kumar Sharma, M.Sc., PGDPPT (PG Diploma in Pulp & Paper Technology), Ph.D.
- Mohd. Salim, M.Sc.
- Shri Kumar Anupam, M. Tech
- Dr. Shubhang Bhardwaj, M. Tech, Ph.D.
- Dr. Nitin Kumar, M. Tech, Ph.D.
- Dr. Jitender Dhiman, M.Sc., Ph.D.

### Senior Scientific Assistant (SSA)

- Shri Ankit Kumar, M.Sc. (Chemistry), Date of joining- February 17, 2025
- Shri Gaurav Goswami, M.Sc. (Chemistry), Date of joining -February 21, 2025
- Shri Vikram Singh, BS-MS dual degree. Date of joining -February 21, 2025
- Shri Robin Singh, M.Sc. (Chemistry), Date of joining- February 25, 2025
- Shri Praduman Singh, B. Tech (Chemical Engineering, Date of joining - February 28, 2025
- Ms. Indu, M.Sc. (Chemistry), Date of joining- March 05, 2025
- Shri Raj Chaurasia, M.Sc. (Chemistry), Date of joining- March 05, 2025
- Shri Shivam Yadav, M.Sc (Chemistry), Date of joining -March 05, 2025



- Shri Rajan Kumar Kujur, B. Tech, M. Tech (Chemical Engineering), Date of joining -March 06, 2025
- Shri Soumya Modak, M.Sc. (Chemistry), Date of joining- March 06, 2025
- Shri Rakesh Kumar, B. Tech, M. Tech (Chemical Engineering), Date of joining - March 07, 2025
- Shri Anushis Patra, M.Sc. (Chemistry), Date of joining -March 20, 2025
- Shri Farookh Ali Ansari, B. Tech (Chemical Engineering), Date of joining - March 25, 2025
- Shri Utkarsh Srivastava, M.Sc. (Chemistry), Date of joining -March 25, 2025

## **Technical and Supporting Staff**

### **Technical Officer E-I**

- Shri N. K. Naik, Diploma in Engineering (Industrial Electronics)

### **Technical Officer-B**

- Shri Pankaj Kumar Goley, B. Tech ( Electrical Engineering)

### **Library Officer-B**

- Smt. Sarita Sharma, MA, MLISc.

### **Technical Grade-VI**

- Shri Dushyant Kumar ( Demise as on 02/04/2024)
- Shri Gopal Singh, MA

### **Technician Grade-III**

- Shri Avinash Kumar, B.Sc. Chemistry (Hons.), Date of joining -February 25, 2025
- Shri Adarsh Kumar Rai, M.Sc. (Chemistry), B.Ed, Date of joining- February 25, 2025
- Shri Jatin Kasliwal, Bachelor of Science (B.Sc.), Date of joining -March 03, 2025

### **Technician Grade-II**

- Shri Jaydeep Chand, Intermediate, ITI NAC (Electrician), Date of joining - February 17, 2025
- Shri Jaikaran, BA & ITI & CITS and NAC(AC and Refrigeration) , Date of joining- February 18, 2025
- Shri Ashish Chaurasiya, Intermediate, ITI, CITS (Fitter) and NAC, Date of joining- February 19, 2025
- Shri Divtesh Aggarwal, Intermediate, ITI & CITS (Electrician) and ITI (Drone Pilot), Date of Joining - February 27, 2025

- Shri Anil Kumar Pandit, Intermediate and ITI ( Electronic Mechanic), Date of joining - March 04, 2025
- Ms. Karishma Pal, Intermediate, ITI & CITS (Fitter) and NAC , Date of joining- March 25, 2025

## **Administrative and Finance Staff**

### **Director**

- Dr. M. K. Gupta, M.Sc., Ph.D. (Superannuated on May 31, 2024)
- Dr. L. P. Singh, M.Sc., Ph.D., Director (May 16, 2024 to September 25, 2024)
- Dr. Ashish Kumar- M. Tech (Paper Technology), Ph.D. (Paper Technology), Date of joining - September 26, 2024

### **Administrative Officer**

- Ms. Barnali Shome, B.E. (Chemical Engineering), Graduate Diploma in Material Management (GDMM)

### **Section Officer**

- Shri K.V.V. K. Satya Sai, B. Com, C.A. Inter
- Shri Amit Kumar, B. E. (Computer Science), MA, Date of joining- January 31, 2025
- Shri Mohan Kumar, MBA (HR & Finance), Date of joining- February 05, 2025



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