

**CENTRAL PULP AND PAPER RESEARCH INSTITUTE
SAHARANPUR (U.P)**

Central Pulp And Paper Research Institute is an ISO – 9001: 2000 certified apex R & D Organisation under administrative control of Department of Industrial Policy & Promotions (DoIPP), Ministry of Commerce & Industry, Govt. of India. CPPRI is located at Saharanpur, a city in the state of Uttar Pradesh (India), 168 kms from Delhi, well connected by rail and road.

Adjacent to CPPRI is situated IIT Campus Saharanpur (DPT) and one of the old paper mills, The Star Paper Mills, Ltd.

The total area of CPPRI is 4,20,787 m² with constructed area of about 10,523 m² and layout includes:

- One administrative block
- Two laboratory blocks.
- Pilot plant
- Library.
- Hostel cum guest house
- Residential complex with 69 residential quarters.
- Indian Pulp & Paper technical Association (IPPTA) Office.



Administrative Block



Library

All the buildings have been designed in such away to use maximum natural light. Trees surround the building, which reduces the heat load inside building. The entire campus is lush green with vegetation and gardens. A dense tree plantation (11,331 trees) has been done on the separated land of about 36,16,87 m². green house and poly house have been constructed for growing saplings. Water sprinkler system is used for water Conservation.



Tree Plantation



Green & Poly House



Water Sprinkle

The campus is fed by 11 KV 3 – phase supply from the State Electricity Corporation through one 1000 KVA indoor transformer. 2 numbers of 250 KVA and one 100 KVA Diesel Generator sets are used as stand by power source. The Campus is consuming average 49,000 kWh per month. Old Conventional fan regulators are being replaced with electronic regulators in the phase wise manner. 3 Nos. rain water harvesting pits are being prepared for recharging the under ground water table.



Rain Water Harvesting Pit
(Work in progress)



Electronic Regulator



Awareness Campaign

Features of the Building

- 1) All building has been designed in a quadrilateral shape, which ensures maximum cross ventilation and natural illumination. The roof of administrative block and laboratories are covered with transparent sheets to maximize the use of natural light. All the buildings are covered with Trees and lawns.



Roof With Transparent Fibre Sheet

- 2) Green Covers as “CO₂ Sink”. The Campus is lush green with gardens and trees. Plantation of trees is a culture is our campus with dignitaries visiting and in house staff plants at least one tree

Total area of campus : 4,20,787 m²
 Total garden & Lawn : 20,000 m² = 4.75 % area
 Total trees & plants : 3,33,981 m² = 79.37 % area

Energy Consumption Details:

Year	Units (E/B)	E.B Bill (Rs.)	Units	Diesel Bill (Rs.)	Total Cost (Rs.)	Average P.F
2004-05	447950	2741545	147616	528465	3270010	0.81
2005-06	421680	2952636	134766	497286	3449922	0.79
2006-07	485870	2904118	101160	426860	3330978	0.94