

EXPANSION AND MODERNISATION PROGRAMME IN THE EXISTING INDUSTRIAL PREMISES

	EXISTING CAPACITY	POST EXPANSION CAPACITY
PAPER AND PAPER BOARD -TPA	163750	320000
CO-GENERATION POWER-MW	40.3	70.3



BACKWARD AREA

HALIYAL TALUKA FALLS IN BACKWARD TALUKA [ZONE -2] AS PER NEW INDUSTRIAL POLICY 2006-11. NO SUBSIDY FROM STATE OR CENTRAL GOVT.

DWINDLING POPULATION



NEED OF THE PROJECT

- A. Improving the existing environmental conditions
- B. Survival of the company- otherwise it will fall in to sick zone
- C. Additional employment generation
- D. Growth of ancillaries & market for various produces of nearby Area.



EMPLOYMENT POTENTIAL

1. During Construction period
2. On implementation
Technicians
And Others
3. Plantation research activity
4. Plantation activities

Preference to local people in employment
with proper training



AGENCIES INVOLVED IN THE PROJECT

A) DETAILED PROJECT REPORT/RAPID ENVIRONMENT ASSESSMENT STUDY

- 1) SPB Projects & Consultancy Ltd., Chennai.
- 2) Vimta Laboratories Ltd., Hyderabad.
- 3) Confederation of Indian Industry(CII), New Delhi.
- 4) Department of environmental Engineering
S.J.College of Engineering - Mysore

B) ENVIRONMENTAL CLEARANCE AND CONSENT FOR ESTABLISHMENT

- 1) Ministry of Environment & Forests, Government of India,
New Delhi.
- 2) Karnataka State Pollution Control Board, Bangalore.



C) WILL BE FUNDED BY

- 1) International Finance Corporation, Washington (IFC).
- 2) ICICI Bank Ltd., Singapore and Mumbai.

D) PROJECT APPROVAL

- 1) Department of Industries & Commerce,
Government of Karnataka.
- 2) Various other government departments.



SELF CONTAINED COLONY

- 2000 HOUSES
- FREE POWER AND WATER SUPPLY
- HOSPITAL
- TEMPLES
- THEATRE
- GARDENS
- CLUBS
- CABLE TV FACILITIES
- MAINTENANCE
- SECURITY AND SAFETY
- SANITATION
- ROADS AND DRAINAGES

ADDITIONAL HOUSES WILL BE CONSTRUCTED
AS PER FUTURE REQUIREMENT



RAW MATERIAL PLANNING

- > APPLICATION TO STATE GOVT TO ALLOT 50000 HECTARES OF DEGRADED REVENUE LAND
- > CONTRACT FARMING STARTED IN LOCAL AREA
- > 1000 ACRES ALREADY COVERED IN 2006 RAINS
- > PLAN 3000 ACRES PER YEAR FROM 2007 RAINS AND THERE AFTER 7500 ACRES P.A
- > PRODUCTIVITY OF 40 TON PER ACRE OR 100 MT PER HECTARE EXPECTED.
- > IMPORT OF WOOD IF REQUIRED



BENEFITS OF PLANTATION

- Employment generation – 450 mandays Per Hectare
- It will meet the rural requirement of fuel and fodder
- Recharging the ground water level
- Soil Conservation
- Enhancing the productivity of the land
- Reducing the procurement distance to 200 Kms., resulting in conservation of petroleum products.



Allotment of 50,000 Hectares of degraded land coming under Revenue & Irrigation Departments in Belgaum, Dharwad, Uttara Kannada & Haveri Districts (For Hi-tech Captive Plantation)

Command Area Development Authority, Belgaum - 7,000 Hectares

Government waste lands (C & D) and Ghairana lands from Belgaum, Uttara Kannada, Dharwad & Haveri Districts - 43,000 Hectares

50,000 Hectares



Area for Plantation 6000 hectares
per year for 7 Years = 42,000 hectares

Area for requirement of small wood and for bio-diversity
8000 Hectares

YEAR	AREA IN HECTARES	EMPLOYMENT GENERATION P/DAY	INVESTMENT IN CRORES
1ST YEAR	6000	9000	18
2ND YEAR	6000	10000	20
3RD YEAR	6000	11000	22
4TH YEAR	6000	12000	24
5TH YEAR	6000	13000	26
6TH YEAR	6000	14000	28
7TH YEAR	6000	15000	30
TOTAL INVESTMENT			168



LAND FOR FORESTRY RESEARCH

Raw Material Yard	-	40 acres
Green Houses, Nurseries & Low Cost Mist Chambers, Hardening Chambers & Seedling Storage	-	46 acres
Clonal Multiplication Area	-	54 acres
Clonal Testing area	-	30 acres
Demonstration Plot	-	15 acres
Genetic Bank	-	<u>15 Acres</u>
		<u>200 Acres</u>

Research Budget Rs. 200 Lacs per annum

Rural Employment Generation 850 persons per day



CORPORATE SOCIAL RESPONSIBILITY

A) DANDELI EDUCATION SOCIETY [SINCE 1963] EDUCATION FROM PRIMARY TO

- POST GRADUATE LEVEL
- PROFESSIONAL COURSES
- PULP AND PAPER SCIENCE
- INDUSTRIAL CHEMISTRY
- FUNCTIONAL ENGLISH
- MICROBIOLOGY, ETC
- EXPENDITURE BORNE BY THE COMPANY-RS 50 LAKHS PER YEAR

B) MEDICAL FACILITIES IN NEARBY VILLAGES

C) PROVIDING DRINKING WATER

D) HELPING IN INFRASTRUCTURE DEVELOPMENT



SUMMARY OF REIA REPORT



PROJECT OBJECTIVES

- ❖ To fully comply with CREP [Charter on Corporate Responsibility for Environmental Protection] requirements
- ❖ To adopt environmental friendly cleaner technologies
- ❖ To meet the demand-supply gap of P&W papers and paper boards
- ❖ Increased pulp and paper production capacity

		Existing	Post Project
- Paper	TPA	163750	320000
- To maximise co-generation of power
- ❖ To enhance pollution control measures to minimise impacts on the environment



WASTE WATER TREATMENT PLANT (POST PROJECT)

WASTE WATER TREATMENT PLANT FACILITIES

New clarification system for paper machine stream
Existing aeration system is adequate due to reduced pollution load at inlet of basin
Additional dewatering system



Environmental Management Plan

E.T.P. existing facility :

Activated Sludge Process with Diffused Aeration System, first of its kind in integrated Pulp and Paper Industries in India.



WASTEWATER TREATMENT PLANT (POST PROJECT)

Hence, the wastewater generated in the mill shall continue to be treated as presently operated with additional clarification and dewatering equipments for handling the new paper machine wastewater.



WCPM WATER INTAKE POINT

- WCPM takes water from Kali River.
- Water is pumped to water treatment plant by providing 3 rising mains.
- Each intake line is provided with electronic flow meter.



AIR ENVIRONMENT



AIR QUALITY MANAGEMENT

1. All monitored results , during study period , are within limits as per national ambient air quality standards
2. All stack emissions within standards
3. All new stacks with high efficiency electrostatic precipitators (ESPs)
4. Odor reduction by non-condensable gases firing in lime kiln.
5. Fugitive emission reduction by dust extraction / suppression system.



POST EXPANSION AIR QUALITY

The Post Expansion Air Quality shall be with in National Ambient Air Quality standards



NOISE LEVELS



NOISE LEVEL MONITORING

NOISE MONITORING

The noise level studies were conducted in twelve (12) locations in rural/residential/commercial/sensitive areas. All the monitored results are well within the limits





Environment Day celebration in E.T.P.

The West Coast Paper Mills Ltd.,



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 - INDUSTRIAL CHEMISTRY
 - FUNCTIONAL ENGLISH
 - MICROBIOLOGY, ETC
- B) MEDICAL FACILITIES IN NEARBY VILLAGES
- C) PROVIDING DRINKING WATER
- D) HELPING IN INFRASTRUCTURE DEVELOPMENT

