

JKPW/ CTS /08.04D / 66 /2022

September 21, 2022

The Member Secretary
Odisha Pollution Control Board
Paribesh Bhavan, A/118, Neelkanthnagar ,
Unit VIII, Bhubaneswar-751012

Sub: Environmental Statement for the year 2021 - 2022

Dear Sir,

As per Environment Protection Rules, 1986, Rule 14, we are herewith sending the Environmental Statement for the year 2021 – 2022 (April – March) in form V.

Thanking you.

Yours faithfully,
For J K Paper Limited



Executive Vice President (Works)

Encl: As Above

CT:

1. Regional Officer, OPCB, Kasturi Nagar, Rayagada, Odisha
2. Director (S), Ministry of Environment & Forests, Eastern Regional Office, A-3, Chandrasekharpur, Bhubaneswar-23



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CIN-L21010GJ1960PLC018099

(Form-V)
Environmental Statement
Part-A

1	Name and Address of the owner/occupier of the industry, operation or process	Shri Vinay Dwivedi Executive Vice President (Works) J K Paper Limited, Unit: JK Paper Mills, Jaykaypur, Rayagada. Odisha
2	Industry Category Primary – (STC Code) Secondary – (SIC Code)	
3	Production Capacity	3,50,000 MTA (Paper +Salable Pulp)
4	Year of Establishment	1962
5	Date of the last environmental Statement submitted	September 25, 2021

Part-B
Water and Raw material Consumption

1. Water consumption M³/d

Process and Boiler Feed	24,800
Domestic	3539

Name of the Products	Water consumption (Process + Boiler feed) per unit of products (M3/T)	
	During the previous financial year (April '20 to March'21)	During the current financial year (April '21 to March'22)
Writing, Printing, MG, MF Paper & Boards and P D sheets	29.29	28.13

2. Raw material Consumption

Name of the raw material	Name of the Products	Consumption of raw material Kgs per ton of nominal finished product / Pulp)	
		During the previous financial year (20-21)	During the current financial year (21-22)
Bamboo	Writing, Printing, MF Paper & Boards & P D sheets	--	--
Hard wood		2652 Kg/T of Pulp	2645 Kg/T of Pulp
Imported Pulp		5.44 Kg/T of Paper	3.27 Kg/T of Paper
Lime		24.61 Kg/T Pulp (Purchased)	21.06 Kg/T Pulp (Purchased)
Caustic lye		20.57 Kg/T Pulp	20.84 Kg/T Pulp
Liquid chlorine		12.04 Kg/T of Pulp	12.05 Kg/T of Pulp
Sodium Sulphate		8.60 Kg/T of Pulp	6.82 Kg/T of Pulp
Hydrogen peroxide		6.15 Kg/T of Pulp	9.38 Kg/T of Pulp
HCl Acid		1.10 Kg/T of Pulp	0.73 Kg/T of Pulp
Alum		--	--


Gen. Manager (EHS)

ASA & AKD sizing chemical	Package Deal	Package Deal
Ground calcium Carbonate/PCC	194.52 Kg/T of Paper	201.41 Kg/T of Paper
Starch	39.59 Kg/T of Paper	38.15 Kg/T of Paper
Dyes and Whitening agent	3.02 Kg/T of Paper	3.12 Kg/T of Paper
Coal	611.47 Kg/T of Paper	562.85 Kg/T of Paper
Furnace oil	0.23 Ltr/T of Pulp	0.52 Ltr/T of Pulp

Note: Financial year is April '2021 to March '2022

Part-C

Pollution Generated (Parameters as specified in the consent issued)

Pollutants	Quantity of pollution generated	Concentration of pollutants generated	% of variation from prescribed standards with reasons
a. Water	Total Effluent per day: 22016 M ³ /Day		Installed E T Plant operated continuously under strict supervision
Suspended Solids	0.593 Kg/T	23.84 mg/l	52.3 % better than norm
BOD	0.353 Kg/T	14.19 mg/l	52.7 % better than norm
COD	3.53 Kg/T	142 mg/l	59.4 % better than norm
AOX	0.081 Kg/T	3.52 mg/l	91.9 % better than norm
pH	'--	7.3	-
b. Air-Stack			Installed ESPs of each boilers operated continuously under strict supervision
Particulate Matter	16.67 Kg/Hr	36.85 mg/NM3	26.3 % better than norm
H ₂ S	0.155 Kg/Hr	5.67 mg/NM3	43.3 % better than norm


Gen. Manager (EHS)

Part-D
Hazardous wastes

(As specified hazardous wastes (Management and Handling) rules, 1989 and thereby amended in 2000

Hazardous wastes	Total quantity	
	During the previous financial year	During the current financial year
A. From Process: Used oil (litres)	8400 Ltrs	47670 Ltrs
Used Lead cell (No) (Batteries)	12 Nos.	21 Nos.
B. From pollution control facilities	Nil	Nil

Part-E
Solid Wastes

	Total quantity (MT)	
	During the previous financial year (2020 - 21)	During the current financial year (2021 - 22)
A. From Process		
1. Hard wood dust (gross)	22377	23214
2. Fly ash	70738	73467
3. Lime sludge on OD basis	7505	10263
4. Slacker Sludge as such	4018	5931
5. NFL rejects as such	2894	4161
B. From pollution control facilities (Effluent Sludge) on OD basis	6000	7500
C. Quantity recycled or re-utilized (Bamboo and Hard wood dust in boilers)	22377	23214


Gen. Manager (EHS)

Part-F

(Please specify the characteristics (in terms of Concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.)

Name of solid wastes	Characteristics	Method of collection	Method of disposal
a. Hazardous waste Used Oil	Oil Emulsion	Collected in leak proof containers	Sold to authorized parties
Used Batteries	Pb Compounds	Collected as such	Buy back system from authorized parties
Other Solid Wastes	Characteristics	Method of collection	Method of disposal
Bamboo and Hard wood dust	Organic%- 96 - 97 Inorganic%- 3 - 4	Removed from chipper screens and collected by the tractors/ trolley/trucks	Used as fuel in boilers
Fly ash	SiO ₂ - 58-62 % R ₂ O ₃ - 2.5-3.0 % Un burnt Carbon % - 1.5 – 1.9	Collected directly by the trucks	100% used for Fly Ash Brick Manufacturing
Effluent sludge	Organic%- 50-55 Inorganic%-45-50 Moisture %- 62-66	Collected by the tractors/ trucks	Used for card board / low grade pulp sheet by the external agencies
Lime sludge	Alkaline (Alkali as Na ₂ O) 0.48 %	Collected directly by the trucks / dumpers	Processed through Lime Kiln Plant for reburn to generate Lime. And few quantities are being used for Land filling in designated -Low laying areas

Part-G

(Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.)

Consumption of steam, power, and water has been reduced and maintained through process improvements, awareness program and Internal Environmental Auditing (ISO 14001).


 Gen. Manager (EHS)

Part-H

(Additional measures/investment proposal for environmental protection including abatement of Pollution.)

- Implementation of different water conservation schemes for further reduction of Fresh water consumption.
- Implementation of different Power and steam conservation schemes for further reduction of Power and steam consumption.

Part-I

Miscellaneous

(Any other particulate in respect of environmental protection and abatement of pollution.)

The following measures were taken for environmental protection and abatement of pollution.

- Installed dust extraction system at lime handling area of our new plant
- Installed dust extraction system at coal handling area of our new plant.
- Fly ash brick making 100 % of ash generated
- Black liquor heat recovery – steam generation 60 –65%
- Double stage oxygen delignification in Pulp mill has been commissioned in our new plant
- Elementary chlorine free bleaching process has been commissioned in our new pulp mill
- Scrubber system in pulp mill to reduce the gas pollution
- Burning of wood dust in coal fired boilers
- Burning of Rice Husk in coal fired boilers
- Increase the waste oil recovery, which is generated due to maintenance of equipments and machineries
- Raw materials from natural forest to man made forest
- More initiatives for energy and water conservation through cost compression cell and environment management team as per ISO -14001
- Augmented our ETP by incorporating one Primary Clariflocculator, Diffused Aeration Basin, New Secondary clarifier, Sludge thickener and centrifuge.
- Lime Kiln Plant of 300 TPD capacity has been commissioned in 2013 by phasing out old Lime Kiln Plant of capacity 160 TPD which was commissioned in 2009.
- Chips washing system is in continuous operation since 2009 for resource conservation
- We have adopted rainwater harvesting of rooftop inside factory premises.
- We have adopted highly efficient & latest technology of ESP's for our new coal fired boiler and new Liquor fired Boiler.
- Use of solar energy for our colony street light.
- Installed Scientific land fill for disposal of Hazardous Waste.
- A part of treated effluent has been diverted for our plantation, sprinkling, gardening purpose
- Sewage Treatment Plant for colony is installed and commissioned
- Installed and commissioned a Methanol Plant to reduce smell


Gen. Manager (EHS)