



WEST COAST PAPER MILLS LTD.,

Registered & Works Office : Post Box No. 5, Bangur Nagar, Dandeli-581 325

Dist Uttar Kannada (Karnataka) - India

CORPORATE IDENTITY NO : L02101KA1955PLC001936 website : www.westcoastpaper.com

Ph : (08284) 231391 - 395 (5 lines) Fax : 08284-231225 (Admn. Office) 230443 (Works Office)



ZZQ/CLAB-Env.Cell - KSPCB/17/1605

22 - 09 -2023

Environmental Officer,
Regional Office,
Karnataka State Pollution Control Board
"Parisara Bhavan", LIG - II, B - 217
B-1, Main Road, A-16th Cross
Near Hari Om Trust, Habbuwada
KARWAR - 581 303

Speed Post with A D

Dear Sir,

Sub: Environmental Audit statement for the year ending 31st March 2023.

We are forwarding here with the Environmental Audit statement of our mills in prescribed format "Form V" for the financial year ending 31st March 2023

We trust you will find the same in order.

Thanking You,

Very truly yours,

WEST COAST PAPER MILLS LTD

Anuj kumar Tayal

Sr.Vice President (Technical)

Encl: As above

Cc: Member Secretary,
Karnataka State Pollution Control Board,
49,Parisara Bhavan,
4th & 5th floor,
Church Street,
Bangalore-560 001

Speed Post with A D



Corporate Office : 31, Chowringhee Road, Kolkata - 700 016
Phone : (033) 2265 6271-78 (8 lines), Fax : (033) 2226 5242,
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ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for financial year ending 31st March - 2023

PART-A

1	Name and Address of the Owner/Occupier of the Industry / Operation or Process	Shri Rajendra Jain Executive Director West Coast Paper Mills Ltd. Bangur Nagar, Dandeli.
2	Industry Category Primary- (STC Code) Secondary- (STC Code)	Red Category
3	Production Capacity	3,20,000 MT per Annum
4	Year of Establishment	1955
5	Date of the last Environmental Statement submitted	26-09-2022

PART -B

Water and Raw Material Consumption

I. Water consumption, m³/d

1	Process Water	43,725 m ³ /day
2	Domestic Water	6,090 m ³ /day

Products	Process Water Consumption per unit of Products	
	During the previous financial year (Excluding domestic water)	During the current financial year (Excluding domestic water)
	2021-2022	2022-23
Paper and Paper Boards	58 m ³ /T of product	51 m ³ /T of product

II. Production Details

S.No	Products	UOM	2021-2022	2022-2023
			Qty /Month	Qty /Month
1	Paper & Paper Board Production	MT	24,732	26,243

III. Raw Material Consumption

.1. Raw Materials

Name of Raw Materials	Name of Product	Units	Consumption of Raw Material per ton	
			2021-2022	2022-2023
Wood	Paper & Paper Boards	MT/T Paper	3.39	3.31
Imported Pulp		MT/T Paper	0.01	0.02
Waste Paper		MT/T Paper	0.04	0.05

.2. Chemicals

Name of Chemicals	Name of Product	Units	Consumption of Raw Material per ton	
			2021-2022	2022-2023
Caustic Soda	Paper & Paper Boards	Kgs/T Pulp	29.62	24.12
Salt Cake		Kgs/T Pulp	19.91	19.55
Lime		Kgs/T Pulp	452.61	440.79
Chlorine		Kgs/T Pulp	8.53	7.66
Sulphuric Acid		Kgs/T Pulp	5.52	3.28
Hydrochloric Acid		Kgs/T Pulp	18.94	19.80
Hydrogen Peroxide		Kgs/T Pulp	13.08	13.83
PAC		Kgs/T Paper	17.77	20.77
Sizing Chemicals		Kgs/T Paper	14.11	13.53
PCC/GCC/Talcum Powder		Kgs/T Paper	159.73	153.87
Starch		Kgs/T Paper	33.63	33.95
Optical Whitening Agent		Kgs/T Paper	3.23	3.73

PART-C

Treated Trade Effluent Discharged to Environment (Parameter as specified in the Consent issued)

(a) Water

S.No	Pollutants (as specified in Consent issued)	Qty. as per Consent Kgs/day	Pollutant Discharged		Percentages of variation from prescribed standard with reasons.
			mg/litre	Kgs/day	
1	BOD ₃ days at 27 ⁰ C	2,577	23	993	No variation as all the pollutants discharged are well within prescribed standards.
2	COD	21,471	212	9,156	
3	Suspended Solids	4,294	30	1,296	
4	Oil & Grease	859	Nil	Nil	
5	Chloride (as Cl)	30,060	196	8,465	
6	Sulphate (as SO ₄)	85,885	102	4,405	
7	Sulphide (as S)	172	Nil	Nil	
8	Total Residual Chlorine	86	Nil	Nil	
9	Ammonical Nitrogen (as N)	4,294	Nil	Nil	
10	Total Kjeldahl Nitrogen (as N)	8,589	2.7	117	
11	Free Ammonia (as NH ₃)	429	Nil	Nil	
12	Dissolve Phosphate (as P)	429	Nil	Nil	
13	Dissolve Solids (Inorganic)	1,80,359	930	40,164	
14	AOX	< 1kg/T of Paper	ND*	--	

* ND - Not Detectable.

Note : WQMS data for the parameters TSS,BOD,COD,pH & Flow are connected to CPCB/KSPCB servers.

(b) Air

Stacks attached to (as specified in Consent issued)	Pollutant as per Consent	Pollutant Quantity as per Consent	Pollutants Discharged		Percentages of variation from prescribed standards with reason
		Kgs/day	Concentration	Achieved	
			mg/Nm ³	Kgs/day	
C R Boiler-1	PM	450	69	190	No deviation as all the pollutants are within prescribed limit due to efficient running of ESP attached Chimney.
	H ₂ S	30	0.89	2.45	
C R Boiler-2	PM	813	78	253	
	H ₂ S	54	0.97	3.15	
Rotary Lime Kiln -1	PM	72	55	21	
Rotary Lime Kiln -2	PM	143	63	35	
FBC Boiler -1	PM	331	70	148	
FBC Boiler -2	PM	446	73	174	
FBC Boiler -3	PM	499	70	195	
FBC Boiler -4	PM	519	77	231	

Note : 1. FBC Boiler No1 & 2 are standby boilers and operated as and when required.
2. All the above OCEMS are connected to CPCB/KSPCB servers.

PART-D**HAZARDOUS WASTES**

(As Specified under Hazardous Wastes Management , Handling and Transboundary movements rules,2016.)

HAZARDOUS WASTE

Description Hazardous Wastes	Total Quantity per Annum	
	2021-2022	2022-2023
A.From process		
i) Wastes Residues containing Oil (Category 5.2)	0.433 MT	0.421 MT
ii) Used spent Oil (Category 5.1)	11.6 KL	35.2 KL
iii) Metal and Metal alloy wastes in metallic non dispersible form (Category BD 1010)	19.73 MT	2.73 MT
iv) Empty barrels /containers/liners (Category 33.1)	61.21 MT	46.40 MT
B. From Pollution Control Facilities	NA	NA

PART-E**SOLID WASTES**

Solid Wastes		Total Quantity (MT/Annum)	
		2021-2022	2022-2023
1. From Process			
a)	Bottom Ash	23,412	22,373
b)	Fly Ash	51,746	42,303
	Total	75,158	64,676
c)	Dry Sludge from ETP	12,982	9,122
d)	Lime Grit	2,289	2,341
e)	Dregs	15,063	10,357
2. Quantity recycled or re-utilized within the unit.			
a)	Chipper Dust (AD basis) kgs/T Paper	75.9	92.6
b)	Lime Sludge (AD basis) Kgs/T Paper	732	705
c)	Dust collected from CR Boiler Kgs/T Paper	114	98

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

Hazardous and Solid wastes with per day generation quantity , characteristics and disposal practice 2022-2023

S.No	Description	Qty / day 2022-23	Characteristics	Disposal practice
A. Hazardous Wastes				
1	Wastes Residues containing Oil	0.001 MT/day	Oil soaked cotton waste	Burnt in Boilers
2	Used Spent Oil	0.10 KL/day	Used machine Oil	Authorized recyclers : Shantadurga Petrochem, Khanapur and Special Oils Kurvinkoppa , Post B Gudihal -531204 Taluk - Kalaghatagi Authorization No.333929
3	Metal & Metal Alloy wastes in metallic non dispersible form	0.01 MT/day	Metals and non metals	Authorized Recyclers: Jayvel Enterprises Plot No 26A KIDAB Malur Industrial Area Taluk - Mandya Authorization No. 306751
4	Empty barrels /Containers / Liners	0.13 MT/day	Plastic Barrels	Authorized Recyclers: Simnani Plot No.14 KIDAB Harlapur Industrial Area , Harihar Authorization No.329125 New Kannimar No.19,2nd Cross,Jyothi Nagar,Behind BHEL factory Mysore road Bangalore Authorization No. 334536
B. Solid Wastes				
1	Dry Sludge from ETP plant	24.99 MT/day	Being given to Board /Egg tray manufacturer.	
2	Fly Ash & Bottom Ash from Power Plant	177.19 MT/day	Fly Ash along with Bottom Ash is given to bricks manufacturers.	

PART- G

Impact of the Pollution control measures taken on conservation of Natural resources and consequently on the cost of reduction in Power, Steam and Water on specific consumption.

Resources	% Decrease
Specific Power Consumption	2.20
Specific Steam Consumption	3.93
Specific Water Consumption	6.85

PART- H

Additional measures/Investment proposal for Environmental protection including abatement of Pollution.

S.No	Scheme details	Saving (m ³ /day)
1	Paper machine No-1 filter back water to use for chemical preparation in place of fresh water.	200
2	Paper machine No-5 power pack cooling water to divert to water conservation tank.	50
3	Paper machine -3 Refiner selaying water to collect and divert to conservation tank.	50
4	Paper machine No-4 & No-5 disc filter super filtrate to use for Paper Machine No-4 & No-5 at shower in place of fresh water	500
5	Paper machine No-6 press section drained back water to collect in a pit and process through Paper machine No-4 disc filter and use clear filtrate and super clear filtrate for pulp dilution at fiber line.	1000
6	Reuse of drinking water back wash water by collecting in a pit and pump back to clarifier at filter house.	200
Total Fresh water saving m³/day		2000

Note:Investment will be done in phased manner for process improvement / new equipment as per requirement.

PART- I

Any other particulars in respect of Environmental protection and abatement of pollution.

IMPLEMENTATION OF VARIOUS IN PLANT MEASURES 2015 ONWARDS FOR ENVIRONMENTAL PROTECTION

- 1 Machine No. 4 back water collection and reuse in Pulp Mill for pulp dilution.
- 2 Paper Machine No.3 mark save all water to reuse for Pulp dilution in Pulp Mill.
- 3 System implemented to supply excess back water to Pulp Mill from P.M/c No.VI.
- 4 Reuse of P.M/c -5 back water for vat shower after process through Disc filter in place of fresh water.
- 5 Excess hot water generated in cooking plant collected in a tank and pumped back to Filter house to reuse in the system.
- 6 Replacement of underground old corroded water pipe line with new pipe line from Filter house to Jackwell overheader.
- 7 Replacement of water header at Filter house from underground to overhead.
- 8 Usage of super clear water for vacuum sealing instead of fresh water in Paper Machine No.-1 to Paper Machine VI.
- 9 Recycling of FFE-2 vacuum pump sealing water.
- 10 Conservation of fresh water by utilizing evaporator condensate.
- 11 Replacement of old pumps at Pump house by energy efficient pumps.
- 12 Replacement of pumps at Filter house by energy efficient pumps with VFD driven energy saving as well as water saving motors against old inefficient pumps.
- 13 Installation of Energy efficient motors 106 Nos.
- 14 Replacement of Old Conventional lights, tubelights with LED lights-2476 Nos.
- 15 Use of 5 star energy efficient fans in place of conventional Ceiling fans - 122 Nos.
- 16 Additional hot liquors accumulator in Pulp Mill cooking section for Steam and process balancing and to reduce Steam consumption.

- 17 Additional Chemical retention tubes to DhT, EOP and D1 stage in Bleach plant to improve the Chemical retention and reduce the Chemical load on ETP.
- 18 Additional pulp wash press in pulp mill to improve pulp washing and reduce effluent load on ETP
- 19 Revamping of both the ESPs of 1100 TPD Recovery boiler to reduce Dust emission.
- 20 Replacement of EDI mini pannel diffusers in Aeration tank.
- 21 Additional Primary clarification started to improve the effluent quality.
- 22 Additional 8 Nos. Turbojet Aerators provided in Biological reactors at ETP to improve the D.O level.
- 23 Use of cooking additives in cooking plant to reduce the foul smell and reduce chemical consumption

Date : 22-09-2023

Signature :



Name : Anuj Kumar Tayal

Designation : Senior Vice President (Technical)

Address : West Coast Paper Mills LTD
Bangur Nagar Dandeli-581325