



# 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](http://www.westcoastpaper.com)

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



ZZR / Env.Cell – KSPCB / 15 / 1110

26 - 08 -2024

Environmental Officer,

Regional Office,

Karnataka State Pollution Control Board

"Parisara Bhavan", LIG – II, B – 217

B-1, Main Road, A-16<sup>th</sup> Cross

Near Hari Om Trust, Habbuwada

KARWAR – 581 303

Speed Post with A D

Dear Sir,

Sub: Environmental Audit statement for the year ending 31<sup>st</sup> March 2024.

We are sending here with the Environmental Audit statement in prescribed format "Form V" for the financial year ending 31<sup>st</sup> March 2024.

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,

4<sup>th</sup> & 5<sup>th</sup> floor,

Church Street,

Bangalore-560 001

Speed Post with A D



The mark of  
responsible forestry

Corporate Office : 31, Chowringhee Road, Kolkata - 700 016

Phone : (033) 2265 6271-78 (8 lines), Fax : (033) 2226 5242, Email : [wcpm.sale@westcoastpaper.com](mailto:wcpm.sale@westcoastpaper.com)

## ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for financial year ending 31<sup>st</sup> March - 2024

### 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	PCB ID	11383
2	Industry Category Primary- (STC Code) Secondary- (STCCode)	Red Category
3	Production Capacity	3,20,000 MT
4	Year of Establishment	25-03-1955
5	Date of the last Environmental Statement submitted	22-09-2023

### PART -B

#### Water and Raw Material Consumption

##### I. Water consumption, m<sup>3</sup>/d

1	Process Water	37136 m <sup>3</sup> /day
2	Cooling Water	4,809 m <sup>3</sup> /day
2	Domestic Water	5,564 m <sup>3</sup> /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)
	2022-2023	2023-2024
Paper, Paper Boards & Duplex Boards	51 m <sup>3</sup> /T of product	45 m <sup>3</sup> /T of product

##### II. Production Details

S.No	Products	UOM	2022-2023	2023-2024
			Qty /Month	Qty /Month
1	Total Paper Production	MT	26,243	25,314
a	Writing and Printing	MT	22,055	21,401
b	Duplex Board	MT	4,188	3,913
2	Pulp Production	BDMT	20,105	19,529



### III. Raw Material Consumption

#### .1. Raw Materials

Name of Raw Materials	Name of Product	Units	Consumption of Raw Material per ton	
			2022-2023	2023-2024
Wood	Paper, Paper Boards & Duplex Boards	MT/T Paper	3.31	3.23
Imported Pulp		MT/T Paper	0.02	0.02
Waste Paper		MT/T Paper	0.05	0.05

#### .2. Chemicals

Name of Chemicals	Name of Product	Units	Consumption of Raw Material per ton	
			2022-2023	2023-2024
Caustic Soda	Paper, Paper Boards & Duplex Boards	Kgs/T Pulp	24.12	20.90
Salt Cake		Kgs/T Pulp	19.55	22.15
Lime		Kgs/T Pulp	440.79	454.45
Chlorine		Kgs/T Pulp	7.66	8.03
Sulphuric Acid		Kgs/T Pulp	3.28	6.02
Hydrochloric Acid		Kgs/T Pulp	19.80	16.77
Hydrogen Peroxide		Kgs/T Pulp	13.83	15.43
PAC		Kgs/T Paper	20.77	20.47
Sizing Solution		Kgs/T Paper	13.53	14.66
Talcum Powder/PCC/GCC		Kgs/T Paper	153.87	150.99
Starch		Kgs/T Paper	33.95	34.56
Optical Whitening Agent		Kgs/T Paper	3.73	3.79
Dyes		Kgs/T Paper	0.16	0.16

### 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 <sub>3</sub> days at 27° C	2,577	22	928	No variation as all the pollutants discharged are well within prescribed standards.
2	COD	21,471	212	8,938	
3	Suspended Solids	4,294	31	1,307	
4	Oil & Grease	859	Nil	Nil	
5	Chloride (as Cl)	30,060	204	8,601	
6	Sulphate (as SO <sub>4</sub> )	85,885	178	7,505	
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	3.9	164	
11	Free Ammonia (as NH <sub>3</sub> )	429	Nil	Nil	
12	Dissolve Phosphate (as P)	429	Nil	Nil	
13	Dissolve Solids (Inorganic)	1,80,359	1119	47,178	
14	AOX	< 1kg/T of Paper	ND*	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
			Concentration	Achieved	
		Kgs/day	mg/Nm <sup>3</sup>	Kgs/day	
C R Boiler-1	PM	450	61	169	No deviation as all the pollutants are within prescribed limit due to efficient running of ESP attached Chimney.
	H <sub>2</sub> S	30	0.91	2.52	
C R Boiler-2	PM	813	71	262	
	H <sub>2</sub> S	54	0.94	3.46	
Rotary Lime Kiln -1	PM	72	49	17	
Rotary Lime Kiln -2	PM	143	63	31	
FBC Boiler -1	PM	331	57	116	
FBC Boiler -2	PM	446	70	164	
FBC Boiler -3	PM	499	62	173	
FBC Boiler -4	PM	519	73	219	

Note : 1. FBC Boiler No1 & 2 are standby boilers and operated as and when required.

2. All the above OCEMS are connected to CPCB/KSPC 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	
	2022-2023	2023-2024
<b>A.From process</b>		
i) Wastes Residues containing Oil (Cat 5.2 )	0.421 MT	0.420 MT
ii) Used spent Oil (Cat 5.1 )	35.2 KL	30.6 KL
iii) Metal and Metal alloy wastes in metallic non despersible from (Cat BD 1010)	2.73 MT	30.701 MT
iv) Empty barrels /containers/liners (Cat 33.1)	46.40 MT	67.12 MT
<b>B. From Pollution Control Facilities</b>	NA	NA

**PART-E****SOLID WASTES**

Solid Wastes		Total Quantity (MT/Annum)	
		2022-2023	2023-2024
<b>1. From Process</b>			
a)	Bottom Ash	22,373	28,071
b)	Fly Ash	42,303	51,008
<b>Total</b>		<b>64,676</b>	<b>79,079</b>
c)	Dry Sludge from ETP	9,122	3,970
d)	Lime Grit	2,341	2,352
e)	Dregs	10,357	11,332
<b>2. Quantity recycled or re-utilized within the unit.</b>			
a)	Chipper Dust (AD basis) kgs/T Paper	92.6	104.0
b)	Lime Sludge (AD basis ) Kgs/T Paper	705	746
c)	Dust collected from CR Boiler Kgs/T Paper	98	101



## PART- F

Please specify the Characteristics ( In terms of concentration and Quantum ) of Hazardous as well as solid wastes and indicate disposal practise adopted for both these categories of wastes

Hazardous and Solid wastes with per day generation quantity , characteristics and disposal practise 2023-2024

S.No	Description	Qty / day 2023-24	Charcteristics	Disposal practice
<b>A. Hazardous Wastes</b>				
1	Wastes Residues containing Oil	<b>0.001</b> MT/day	Oil soaked cotton waste	Burnt in Boilers
2	Used Spent Oil	<b>0.08</b> KL/day	Used machine Oil	Authozored recyclers M/sShantadurga Petrochem, Khanapur
3	Metal & Metal Alloy wastes in metallic non dispersible form	<b>0.08</b> MT/day	Metals and non metals	<b>Authorized Recyclers</b> Jayvel Enterprise,Kolar <b>(Scrap Copper Cable)</b> Rajeshwari Recyclers LLP Bangalore <b>(Scrap Copper &amp; Brass)</b> Hi Metal and Alloys Bangalore <b>(Scrap Copper rewinding wire and Patti)</b>
4	Empty barrels /Containers / Liners	<b>0.18</b> MT/day	Plastic Barrels	Authorized Recyclers Indian Enterprises Plot No 13. 1 <sup>st</sup> cross Tubinkere Industrial area Taluk - Mandya
<b>B. Solid Wastes</b>				
1	Dry Sludge from ETP plant	<b>10.85</b> MT/day	Fiber - 55% Ash - 45%	Being given to Board /Egg tray manufacturer.
2	Fly Ash & Bottom Ash from Power Plant	<b>216.65</b> MT/day	Silica,Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> etc	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
Power Consumption	<b>1.94</b>
Steam Consumption	<b>3.98</b>
Water Consumption in Process,Colony supply & supply to the Down stream villages	<b>0.17</b>

## PART- H

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

**Additional Measures / Investment proposed for water saving.**

S.No	Water saving Schemes implemented details in 2023-2024	Saving	Investment
		m <sup>3</sup> /day	Rs.Lakhs
1	SP4 Cloudy filtrate pump and line modification to collect in a pit and process through Disc filter	200	5
2	SP1,2,&3 all pumps sealing water pipe line reduced from 1" to 1/4" to reduce water consumption	25	1
3	Cycling chest consistency dilution line provided with clarified water	25	2.5
4	SP1 DAF clarified water line given to UTM Pulper	50	3
5	One additional vibro screen installed for PM1 back water clarification and pump excess back water to finer line	150	10
6	Paper machine No4&5 excess back water to process through Mega cell kofra and use clear filtrate for PM4 Vat shower and remaining clear water to fiber line .	1600	80
<b>Total Fresh water saving m<sup>3</sup>/day</b>		<b>2050</b>	<b>101.5</b>

## 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 Collection and recirculation of pump sealing water at BHEL recovery boiler.
- 4 Paper Machine No6 excess back water collected and processed through PM4 DISC Filter and clear water used for pulp dilution at Fiber line
- 5 Conservation of fresh water by utilizing evaporator condensate.
- 6 Replacement of pumps at Pump house by energy efficient pumps.
- 7 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.
- 8 Replacement of underground old corroded water pipe line with new pipe line from Filter house to Jackwell overheader.
- 9 Excess hot water generated in cooking plant collected in a tank and pumped back to Filter house to reuse in the system.
- 10 Modification of steam and condensate system of Air pre heater in ENMAS boiler to achieve reduction in steam consumption.
- 11 Replacement of colony pumps at Filter house by energy efficient pump against old energy inefficient pumps.
- 12 Providing conductivity sensor along with drain valve and drain pipe to FFE-1 water outlet pipe to Mist cooling tower.
- 13 Usage of super clear water for vacuum sealing instead of fresh water in Paper Machine No.-1 to Paper Machine VI.



- 14 Additonal pulp wash presses in Pulp Mill to improve washing and to reduce load on ETP.
- 15 Additional hot liquors accumulator in Pulp Mill cooking section for Steam and process balancing and to reduce Steam consumption.
- 16 Revamping of both the ESPs of 1100 TPD Recovery boiler to reduce Dust emission.
- 17 Installation of Energy efficient motors 106 Nos.
- 18 P.M/c-2 Steam and Condensate system modification to reduce the Stem consumption.
- 19 Additonal Chemical retention tubes to DhT,EOP and D1 stage in Bleach plant to improve the Chemical retention and reduce the Chemical load on ETP.
- 20 Reuse of P.M/c -6 effluent in process through Disk filter in place of fresh water.
- 21 Reuse of P.M/c -5 back water for vat shower after process through Disc filter inplace of fresh water.
- 22 Replacement of Old Conventional lights,tubelights with LED lights-2476 Nos.
- 23 Use of 5 star energy efficient fans inplace of conventional Cealing fans - 122 Nos.
- 24 Replacement of Cooling tower fans #1 & #3 of TG 34.5 MW with energy efficient fans.
- 25 Additional 8 Nos. Turbojet Aerators provided in Biological reactors at ETP to improve the D.O level.
- 26 Installation of new sludge handling system which consists of Thickner and Decanter for primary sludge Handling.
- 27 Installation of Fine bar automatic screen at old ETPlant for paper machine No6 effluent chennel to collect impurities.
- 28 Use of Cooking additives in cooking plant to reduce the Chemical consumption and reduce foul smell.

----- \*\*\*\*\* -----

Date : 26-08-2024

Signature :

Name : Anuj Kumar Tayal

Designation : Senior Vice President (Technical)

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