

## Main Stack 1

Monitoring Location No: 1  
 Monitoring Type: Continuous  
 Sample Type: Air  
 Description: Exit point from Stack 1 to atmosphere

Opacity		Period: 6 Minutes	Limit: 20.00 %			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
05/01/24 10:18	05/01/24 10:24	Lime Kiln A ESP	Equipment Issue/Failure	Kiln A had a high CO spike causing the ESP to trip out.	Process adjusted and ESP restarted and plant stabilized.	29.52
06/01/24 19:42	06/01/24 19:48	Recovery Boiler A ESP2	Equipment Issue/Failure	ESP 2 Field 3 Rectifier tripped causing the exceedance	Unit reset no issues found and restarted.	26.49
16/01/24 11:42	16/01/24 11:48	Lime Kiln B	Lime Kiln B Scheduled Start-up/Shut-down	Planned shut and restart on Kiln B causing the exceedance.	Plant restarted and stabilized after maintenance.	24.66
22/01/24 13:54	22/01/24 14:00	Recovery Boiler A ESP2	Equipment Issue/Failure	Temperature probe was changed on ESP2 Field 3 Insulator, What was not known at that time was an Interlock that would trip the field when the temperature drops below a certain value which did happen.	Operator and Maintenance persons were counselled on completing a thorough risk analysis prior to issuing a permit to work on any equipment.	35.01
23/01/24 16:24	23/01/24 16:36	Recovery Boiler A	Equipment Issue/Failure	Recovery boiler tripped due to a flashover on a VFD (Feedwater pump Breaker) taking out all the VFD motors.	Temporary repairs done and Boiler restarted.	66.08
27/01/24 06:42	27/01/24 06:48	Power Boiler EP	Equipment Issue/Failure	Faulty high-level switch on Ash hopper 2 caused the 2nd field of the ESP to trip causing the exceedance.	Level switch back to normal and Field 2 of ESP restarted.	28.14
28/01/24 16:54	28/01/24 17:00	Recovery Boiler A ESP2	Equipment Issue/Failure	TR Set 3 tripped, no issues found by E&I.	TR Set reset and started with no additional issues.	44.23
28/01/24 17:00	28/01/24 17:12	Recovery Boiler A ESP2	Equipment Issue/Failure	TR Set 3 tripped, no issues found by E&I.	TR Set reset and started with no additional issues.	38.32

## Power Boiler

Monitoring Location No: 3  
Monitoring Type: Continuous  
Sample Type: Air  
Description: Discharge duct downstream of Power Boiler prior to junction with Stack 1

Carbon Monoxide (CO)		Period: 60 Minutes	Limit: 140.00 mg/Nm3			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
13/01/24 07:00	13/01/24 08:00	Power Boiler	Normal (Steady State)	Started Load burners for testing.	Load burners tested and stopped, put back on Standby	145.86

## Main Stack 2

Monitoring Location No: 22  
Monitoring Type: Continuous  
Sample Type: Air  
Description: Exit point from Stack 2 to atmosphere

Opacity		Period: 6 Minutes	Limit: 20.00 %			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
01/01/24 12:24	01/01/24 12:30	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	23.49
02/01/24 12:24	02/01/24 12:30	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	25.17
03/01/24 12:24	03/01/24 12:30	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	22.60
04/01/24 12:24	04/01/24 12:30	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	22.74
09/01/24 09:36	09/01/24 09:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	20.84
10/01/24 09:42	10/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	20.11
11/01/24 09:42	11/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	21.01

12/01/24 09:42	12/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	21.28
13/01/24 09:42	13/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	21.71
14/01/24 09:42	14/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	22.02
15/01/24 09:42	15/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	n/a	23.42
16/01/24 08:42	16/01/24 09:12	Recovery Boiler B ESP1/ESP2	RB B Scheduled Start-up/Shut-down	Planned shut and start on B boiler and also ESP conveyors.	Shut completed and plant restarted and stabilized.	47.42
16/01/24 11:18	16/01/24 11:24	Recovery Boiler B ESP1/ESP2	RB B Scheduled Start-up/Shut-down	Planned shut and start on B boiler and also ESP conveyors.	Shut completed and plant restarted and stabilized.	39.94
16/01/24 13:12	16/01/24 13:18	Recovery Boiler B ESP1/ESP2	RB B Scheduled Start-up/Shut-down	Planned shut and start on B boiler and also ESP conveyors.	Shut completed and plant restarted and stabilized.	24.72
18/01/24 09:42	18/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	n/a	22.10
19/01/24 09:42	19/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	n/a	23.25
20/01/24 09:42	20/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	n/a	21.68
21/01/24 09:42	21/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	n/a	23.25
22/01/24 09:42	22/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	21.46
23/01/24 09:42	23/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	22.47
24/01/24 09:42	24/01/24 09:48	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	26.40
25/01/24 09:42	25/01/24 09:48	Auto Zero Span Verification	Equipment Issue/Failure	Auto Calibration	n/a	23.29
31/01/24 09:36	31/01/24 09:42	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	21.21

Authorised By:

**Uday Bhagwat**  
Pulp Mill Manager



**Johan Stoltz**  
General Manager



