

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
03/05/24 02:06	03/05/24 02:12	Lime Kiln A	Lime Kiln A Un Scheduled Start-up/Shut-down	Lime Kiln A tripped on interlock protection for high CO concentration. Reason is that the condensate could not supply enough for density control of the lime mud (too many users at once).	Finish filling condensate for the acid wash on the X Filter then restart the kiln with the density in control.	42.25
10/05/24 15:36	10/05/24 15:42	Lime Kiln A	Lime Kiln A Un Scheduled Start-up/Shut-down	Operations was cleaning the LMF feed chute and lost the flame in LK A due to high CO (interlock protection).	Finish cleaning task and restart LK A and ESP - all back in service.	57.36
14/05/24 19:06	14/05/24 19:12	Lime Kiln B	Lime Kiln B Un Scheduled Start-up/Shut-down	Stop LK B to shoot a ring at the back of the Kiln.	Restart Kiln B and ESP - all back in service	24.76
16/05/24 07:42	16/05/24 07:48	Lime Kiln B	Lime Kiln B Un Scheduled Start-up/Shut-down	Lime Kiln B stopped for high CO interlock protection. Co spiked to fast to catch.	Restart kiln	22.00
19/05/24 05:30	19/05/24 06:06	Recovery Boiler A ESP2	Equipment Issue/Failure	Shear pin on RBA EP2 ash rotary feeder sheared off. and tripped EP2 T/R sets.	Replaced shear pin and restart ESP 2	89.46
19/05/24 23:18	20/05/24 00:54	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Shut down the Power Boiler for the planned 6 monthly shut	Shut down the Power Boiler and cool for maintenance and cleaning.	26.68
21/05/24 01:18	21/05/24 01:24	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start-up of the Power Boiler after the 6 monthly planned shut down.	Start-up Power Boiler and ESPs	37.27
21/05/24 05:42	21/05/24 06:06	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start up of the Power Boiler after the mid-year shut	Start up the boiler and stabilise	26.00

21/05/24 06:18	21/05/24 06:24	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start up of the Power Boiler after the mid-year shut	Start up the boiler and stabilise	24.65
21/05/24 06:30	21/05/24 06:36	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start up of the Power Boiler after the mid-year shut	Start up the boiler and stabilise	23.69
21/05/24 06:42	21/05/24 06:54	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start up of the Power Boiler after the mid-year shut	Start up the boiler and stabilise	26.21
21/05/24 08:12	21/05/24 08:42	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start up of the Power Boiler after the mid-year shut	Start up the boiler and stabilise	30.45
21/05/24 10:36	21/05/24 11:00	Recovery Boiler A ESP2	Equipment Issue/Failure	Precipitator 2 rotary feeder shearing pin broke, could have been something that went through it, guys had some issues with replacing due to incorrect sized pins supplied.	Shear pin replaced, rotary and precipitator 2 started, opacity returned to normal.	89.55
21/05/24 18:36	21/05/24 19:12	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start up solid fuel firing on the Power Boiler	Start-up and stabilise the boiler	76.67
21/05/24 23:42	21/05/24 23:54	Recovery Boiler A ESP2	Equipment Issue/Failure	Precipitator 2 rotary feeder shearing pin broke, could have been something that went through it, guys had some issues with replacing due to incorrect sized pins supplied.	Shear pin replaced, rotary and precipitator 2 started, opacity returned to normal.	35.12
28/05/24 01:30	28/05/24 01:42	Recovery Boiler A ESP1	Equipment Issue/Failure	Precipitator 1 field 3 tripped, boiler firing reduced while Elect.Dept. was working to solve issue	Field 3 issue resolved and started; opacity returned to normal.	38.56

TRS (as H2S) Period: 60 Minutes Limit: 3.60 mg/Nm3						
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
09/05/24 15:00	09/05/24 17:00	Auto Zero Span Verification	Normal (Steady State)	Commissioning of the new TRS analyser. Testing the ranges. No real TRS exceedance.	Continue with commissioning and calibration of the new unit.	5.10
09/05/24 17:00	09/05/24 21:00	Auto Zero Span Verification	Normal (Steady State)	Commissioning of the new TRS analyser. Testing the ranges. No real TRS exceedance.	Continue with commissioning and calibration of the new unit	10.39

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
21/05/24 03:00	21/05/24 05:00	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start-up of the Power Boiler after the planned shutdown for 6 monthly cleaning	Start-up the boiler	275.04
21/05/24 05:00	21/05/24 10:00	Power Boiler	Power Boiler Scheduled Start-up/Shut-down	Start-up of the Power Boiler after the mid-year planned shut	Start-up and stabilise firing in the Boiler	489.20
30/05/24 10:00	30/05/24 13:00	Power Boiler	Equipment Issue/Failure	After startup the Secondary dampers was not set up correctly affecting combustion in furnace.	Secondary Dampers adjusted and CO came back in spec.	173.53

Main Stack 2

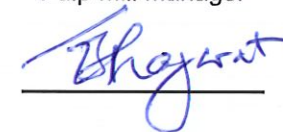
Monitoring Location No: 22
Monitoring Type: Continuous
Sample Type: Air
Description: Exit point from Stack 2 to atmosphere

Opacity		Period: 6 Minutes	Limit: 20.00 %			
Start Time	End Time	Cause	Operational State	Explanation	Corrective Action	Max Reading
01/05/24 10:18	01/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	21.95
02/05/24 10:18	02/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	24.05
03/05/24 10:18	03/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	23.43
04/05/24 10:18	04/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	25.16
05/05/24 10:18	05/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	25.52

06/05/24 10:18	06/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	24.74
07/05/24 10:18	07/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	24.51
08/05/24 10:18	08/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	24.55
09/05/24 10:18	09/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.88
10/05/24 10:18	10/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	23.71
11/05/24 10:18	11/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.65
12/05/24 10:18	12/05/24 10:24	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.09
17/05/24 10:12	17/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	20.45
18/05/24 10:12	18/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.03
19/05/24 10:12	19/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.92
20/05/24 10:12	20/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.60
21/05/24 10:12	21/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.77
22/05/24 10:12	22/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	23.15
23/05/24 10:12	23/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	22.77
24/05/24 10:12	24/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	23.10
25/05/24 10:12	25/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	24.01
26/05/24 10:12	26/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	21.81
27/05/24 10:12	27/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	22.97
28/05/24 10:12	28/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto calibration	N/A	23.04
29/05/24 10:12	29/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	24.69
30/05/24 10:12	30/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	22.48
31/05/24 06:00	31/05/24 06:06	Unknown	Normal (Steady State)	No reason found for exceedance but we did experience a heavy downpour which for some reason affects the opacity on this boiler.	Monitoring	24.96
31/05/24 10:12	31/05/24 10:18	Auto Zero Span Verification	Normal (Steady State)	Auto Calibration	n/a	24.45

Authorised By:

Uday Bhagwat
Pulp Mill Manager



Johan Stoltz
General Manager

