



GREEN CIRCLE, INC.

Integrated HSEQR Consulting Engineers, Scientists & Trainers
(Recognised By Ministry of Environment, Forest and Climate Change, New Delhi Under EPA 1986)
(F. No. - 15018 / 06 / 2016 - CPW)
(ISO 9001, 14001, 45001 & NABL / 17025 Certified Organisation)

Report No: GCI/V/Lab/EM-SP/22-23/Dec-00/1097

Date: 06/01/2023

ANALYSIS REPORT
(For the Month of Dec-2022)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / UTE/ Dec-2022/ 01/ 2022-2023
		Location	ETP Inlet Sample
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1000 ml
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	1000 ML bottle
Analysis Completing On	06/01/2023	Sampling Method	APHA 1060

Sr. No.	Parameter	Results	Units	Standard Method
Physical Parameter				
1	TSS	610	mg/lit	IS: 3025 Part-17 (R.A : 1996)
2	TDS	5897	mg/lit	IS: 3025 Part-17 (R.A : 1996)
Chemical Parameter				
1	pH	5.23	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD	1950	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD	4879	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil & Grease	12.3	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chlorides	1089	mg/lit	IS: 3025 Part 32 (R.A : 2003)
6	Sulphate	2154	mg/lit	APHA :22ndedition -(4500- SO42- E)



Authorized Signatory

- Analysis is subject to the condition in which the sample is received at our Laboratory.
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- Sample will be retained till one month from the date of sampling.

CORP. OFFICE & R & D : Green Empire (Anupushpam), Above AXIS Bank, Nr. Yash Complex, Gotri Main Road, Vadodara - 390 021 (Gujarat), INDIA.
Tel.: +91 - 265 - 2371269 Cell: +91 93285 83835 Email: info@greencircleinc.com Website: www.greencircleinc.com

NEW DELHI GOA PUNE BENGALURU U.K. : ALSO AT : HYDERABAD KOLKATA DHARWAD MUMBAI PORT BLAIR
AUSTRALIA OMAN KUWAIT AFRICA : OVERSEAS : VIETNAM BANGLADESH MYANMAR SRI LANKA UAE



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		Location	ETP Outlet Sample		
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1000 ml		
		Date of Sampling	28/12/2022		
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022		
Analysis Starts on	29/12/2022	Sampling Instrument	1000 ML bottle		
Analysis Completing On	06/01/2023	Sampling Method	APHA 1060		
Sr. No.	Parameter	Results	MPCB limit	Units	Standard Method
Physical Parameter					
1	TSS	32.3	<100	mg/lit	IS: 3025 Part-17 (R.A : 1996)
2	TDS	678	<2100	mg/lit	IS: 3025 Part-17 (R.A : 1996)
Chemical Parameter					
1	pH	6.97	5.5-9.0	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD	43.2	<100	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD	150.4	<250	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil & Grease	BDL	<10	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chlorides	86.5	<600	mg/lit	IS: 3025 Part 32 (R.A : 2003)
6	Sulphate	104.6	<1000	mg/lit	APHA :22nd edition -(4500- SO42- E)

REMARKS / OBSERVATIONS: Above all parameters are within limits as per MPCB



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Date: 06/01/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Boiler Stack/ Dec-2022/ 03/ 2022- 2023
		Location	Boiler Stack
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1 no
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	Stack Monitoring kit
Analysis CompletingOn	06/01/2023	SamplingMethod	Isokinetic Sampling

PROCESS STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	RCC	--
2	Stack Height from G.L.	71.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Bagasse	--
5	Flue Gas Temperature	121	°C
6	Differential Pressure	4.5	mmWG
7	Velocity	8.14	m/s
8	Diameter of Stack	3.0	Mtr
9	Gas Volume	142448.1	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	98.5	mg/Nm ³	≤150.00	IS:11255 (Part -1)-1985
2.	Sulphur Dioxide (SOx)	76.3	Kg/day	4704	IS:11255 (Part -1)-1985



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Date: 06/01/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL/ DG Stack/ Dec- 2022 / 04/ 2022- 2023
		Location	DG Set Stack 725 KVA
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1 No.
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	Stack Monitoring kit
Analysis Completing On	06/01/2023	Sampling Method	Isokinetic Sampling

STACK DETAILS

Sr.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	6	Mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	96	°C
6	Differential Pressure	3.7	Mmwg
7	Velocity	7.1	m/s
8	Diameter of Stack	0.228	Mtr
9	Gas Volume	794.3	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	5.9	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	SO ₂	1.32	Kg/day	≤ 8.18	IS:11255 (Part -1)-1985



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ANALYSIS REPORT (For the Month of Dec-2022)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Dec 2022 / 05/ 2022- 2023
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Location	Near Main Gate 1
		Quantity	Ambient Air
Sampling Collected By	Universal Associates	Date of Sampling	28/12/2022
		Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	06/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS					
Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	60.1	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	18.25	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part
3	Sulphur Dioxide (SO ₂)	10.03	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	13.25	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	3.2	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.



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Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Dec- 2022 / 06/ 2022- 2023
		Location	Outside Process Area –Sugar Unit
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	01/06/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS					
Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	58.7	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	23.4	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	13.2	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	23.6	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	3.6	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Date: 06/01/2023

ANALYSIS REPORT (For the Month of Dec -2022)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Dec- 2022 /07/ 2022- 2023
		Location	Outside Process Area –Cogen Unit
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	06/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	61.23	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	25.62	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	17.8	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	27.8	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	4.1	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Dec- 2022/08/ 2022-2023
		Location	Near ETP Area
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	06/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	58.9	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	26.2	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	13.6	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	25.3	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	4.0	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

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Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / NM/ Dec-2022 / 09/ 2022- 2023
		Location	As per Table
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Noise Monitoring
		Date of Sampling	28/12/2022
Sampling Collected By	Universal Associates	Date of Sample Received	29/12/2022
Analysis Starts on	29/12/2022	Sampling Instrument	Sound Level Meter
Analysis Completion On	06/01/2023	Sampling Method	Sound level Meter Instrument Manual

Sr. No.	Location	Result		Unit
		Day Time 02:40 pm. Onwards	Night Time 10:30 pm. Onwards	
	Ambient Area			
01	Near Main Gate	58.3	58.3	dB(A)
02	Near ETP	56.4	56.2	dB(A)
03	Outside Process Area -	57.3	57.5	dB(A)
	Work zone Area			
01	Inside process Area,	59.2	60.5	dB(A)
02	Boiler Area	60.2	61.0	dB(A)

REMARK / OBSERVATIONS:

Maharashtra Pollution Control Board has prescribed 75 dB (A) as an upper limit of Noise Level during day time and 70 dB (A) at night time. Above results are within the prescribed limits by MPCB.

Area	Category of Area	Limits dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	<75	<70
B	Commercial Area	<65	<55
C	Residential Area	<55	<45
D	Silence Zone	<50	<40

- > **Note: 1 Day Time shall mean from 06:00 am to 10:00 pm**
- > **Note: 2 Night Time shall mean from 10:00 pm to 06:00 am**



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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT
(For the Month of Jan-2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / UTE/ Jan-2023/ 01/ 2022- 2023
		Location	ETP Inlet Sample
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur- 416507	Quantity	1000 ml
		Date of Sampling	20/01/2023
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	1000 ML bottle
Analysis Completing On	28/01/2023	Sampling Method	APHA 1060

Sr. No.	Parameter	Results	Units	Standard Method
Physical Parameter				
1	TSS	687	mg/lit	IS: 3025 Part-17 (R.A : 1996)
2	TDS	6123	mg/lit	IS: 3025 Part-17 (R.A : 1996)
Chemical Parameter				
1	pH	5.45	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD	2040	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD	5121	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil & Grease	17.2	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chlorides	1125	mg/lit	IS: 3025 Part
6	Sulphate	2089	mg/lit	IS: 3025 Part-32 (R.A : 2003)



Authorized Signatory

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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT (For the Month of Jan-2023)

Client Details		Sample Details			
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / TE/ Jan-2023/ 02/ 2022- 2023		
		Location	ETP Outlet Sample		
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1000 ml		
		Date of Sampling	20/01/2023		
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023		
Analysis Starts on	21/01/2023	Sampling Instrument	1000 ML bottle		
Analysis Completing On	28/01/2023	Sampling Method	APHA 1060		
Sr. No.	Parameter	Results	MPCB limit	Units	Standard Method
Physical Parameter					
1	TSS	34.5	<100	mg/lit	IS: 3025 Part-17 (R.A : 1996)
2	TDS	678.2	<2100	mg/lit	IS: 3025 Part-17 (R.A : 1996)
Chemical Parameter					
1	pH	6.89	5.5-9.0	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD	45.6	<100	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD	157	<250	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil & Grease	BDL	<10	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chlorides	89.1	<600	mg/lit	IS: 3025 Part 32 (R.A : 2003)
6	Sulphate	107.5	<1000	mg/lit	APHA :22nd edition -(4500- SO42- E)

REMARKS / OBSERVATIONS: Above all parameters are within limits as per MPCB



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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Boiler Stack/ Jan-2023/ 03/ 2022- 2023
		Location	Boiler Stack
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1 no
		Date of Sampling	20/01/2023
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	Stack Monitoring kit
Analysis Completing On	28/01/2023	Sampling Method	Isokinetic Sampling

PROCESS STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	RCC	--
2	Stack Height from G.L.	71.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Bagasse	--
5	Flue Gas Temperature	133	°C
6	Differential Pressure	3.9	mmWG
7	Velocity	7.69	m/s
8	Diameter of Stack	3.0	Mtr
9	Gas Volume	142448.3	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	112.3	mg/Nm ³	≤150.00	IS:11255 (Part -1)-1985
2.	Sulphur Dioxide (SOx)	72.3	Kg/day	4704	IS:11255 (Part -1)-1985



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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / DG Stack/ Jan- 2023 / 04/ 2022- 2023
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Location	DG Set Stack 320 KVA
		Quantity	1 No.
Sampling Collected By	Universal Associates	Date of Sampling	20/01/2023
		Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	Stack Monitoring kit
Analysis Completing On	28/01/2023	Sampling Method	Isokinetic Sampling

STACK DETAILS

Sr.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	6	Mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	88	°C
6	Differential Pressure	3.8	Mmwg
7	Velocity	6.9	m/s
8	Diameter of Stack	0.228	Mtr
9	Gas Volume	789.2	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	6.3	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	SO ₂	3.5	Kg/day	≤ 8.18	IS:11255 (Part -1)-1985



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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT (For the Month of Jan-2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Jan 2023 / 05/ 2022- 2023
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Location	Near Main Gate 1
		Quantity	Ambient Air
Sampling Collected By	Universal Associates	Date of Sampling	20/01/2023
		Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	28/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS					
Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM10)	57.6	$\mu\text{g}/\text{m}^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM2.5)	26.3	$\mu\text{g}/\text{m}^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part
3	Sulphur Dioxide (SO2)	12.3	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	20.01	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O3)	BDL	$\mu\text{g}/\text{m}^3$	≤ 180	NAAQS Guideline
6	Lead (Pb)	BDL	$\mu\text{g}/\text{m}^3$	≤ 1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	0.024	$\mu\text{g}/\text{m}^3$	≤ 04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

- > All above results are within National Ambient Air Quality standards.
- > BDL – Below Detectable Limit.



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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT

(For the Month of Jan2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Jan- 2023 / 06/ 2022- 2023
		Location	Outside Process Area –Sugar Unit
Address	Gut No. 76, Chennai Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	20/01/2023
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	28/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS					
Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	64.36	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	23.01	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	13.6	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	24.59	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	6.1	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date: 28/01/2023

ANALYSIS REPORT (For the Month of Jan -2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Jan- 2023/07/ 2022-2023
		Location	Outside Process Area –Cogen Unit
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	20/01/2023
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	28/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM10)	62.6	$\mu\text{g}/\text{m}^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM2.5)	32.9	$\mu\text{g}/\text{m}^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	15.2	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	26.5	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	4.6	$\mu\text{g}/\text{m}^3$	≤ 180	NAAQS Guideline
6	Lead (Pb)	BDL	$\mu\text{g}/\text{m}^3$	≤ 1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	$\mu\text{g}/\text{m}^3$	≤ 04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Report No: GCI/V/Lab/EM-SP/22-23/Jan -00/ 1111

Date: 28/01/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Jan- 2023/08/ 2022-2023
		Location	Near ETP Area
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	20/01/2023
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	28/01/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM10)	58.6	$\mu\text{g}/\text{m}^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM2.5)	30.1	$\mu\text{g}/\text{m}^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	14.9	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	21.8	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	5.7	$\mu\text{g}/\text{m}^3$	≤ 180	NAAQS Guideline
6	Lead (Pb)	BDL	$\mu\text{g}/\text{m}^3$	≤ 1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	$\mu\text{g}/\text{m}^3$	≤ 04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Report No: GCI/V/Lab/EM-SP/22-23/Jan-00/1111

Date:28/01/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / NM/ Jan-2023 / 09/ 2022- 2023
		Location	As per Table
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Noise Monitoring
		Date of Sampling	20/01/2023
Sampling Collected By	Universal Associates	Date of Sample Received	21/01/2023
Analysis Starts on	21/01/2023	Sampling Instrument	Sound Level Meter
Analysis CompletionOn	28/01/2023	SamplingMethod	Sound level Meter Instrument Manual

Sr. No.	Location	Result		Unit
		Day Time 02:40 pm. Onwards	Night Time 10:30 pm. Onwards	
	Ambient Area			
01	Near Main Gate	57.3	58.2	dB(A)
02	Near ETP	56.8	55.9	dB(A)
03	Outside Process Area -	57.6	58.2	dB(A)
	Work zone Area			
01	Inside process Area,	64.2	63.3	dB(A)
02	Boiler Area	65.8	64.7	dB(A)

REMARK / OBSERVATIONS:

Maharashtra Pollution Control Board has prescribed 75 dB (A) as an upper limit of Noise Level during day time and 70 dB (A) at night time. Above results are within the prescribed limits by MPCB.

Area	Category of Area	Limits dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	<75	<70
B	Commercial Area	<65	<55
C	Residential Area	<55	<45
D	Silence Zone	<50	<40

- > **Note: 1 Day Time shall mean from 06:00 am to 10:00 pm**
- > **Note: 2 Night Time shall mean from 10:00 pm to 06:00 am**



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Report No: GCI/V/Lab/EM-SP/22-23/Feb-00/

Date: 04/03/2023

ANALYSIS REPORT
(For the Month of Feb-2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / UTE/ Feb-2023/ 01/ 2022- 2023
		Location	ETP Inlet Sample
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur- 416507	Quantity	1000 ml
		Date of Sampling	25/02/2023
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	1000 ML bottle
Analysis Completing On	04/03/2023	Sampling Method	APHA 1060

Sr. No.	Parameter	Results	Units	Standard Method
Physical Parameter				
1	TSS	598	mg/lit	IS: 3025 Part-17 (R.A : 1996)
2	TDS	4785.2	mg/lit	IS: 3025 Part-17 (R.A : 1996)
Chemical Parameter				
1	pH	5.61	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD	1820	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD	4623	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil & Grease	16.3	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chlorides	1056	mg/lit	IS: 3025 Part 32 (R.A : 2003)
6	Sulphate	1987	mg/lit	APHA :22ndedition -(4500- SO42- E)



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Report No: GCI/V/Lab/EM-SP/22-23/Feb-00/

Date: 04/03/2023

ANALYSIS REPORT (For the Month of Feb-2023)

Client Details		Sample Details			
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / TE/ Feb-2023/ 02/ 2022- 2023		
		Location	ETP Outlet Sample		
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1000 ml		
		Date of Sampling	25/02/2023		
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023		
Analysis Starts on	26/02/2023	Sampling Instrument	1000 ML bottle		
Analysis Completing On	04/03/2023	Sampling Method	APHA 1060		
Sr. No.	Parameter	Results	MPCB limit	Units	Standard Method
Physical Parameter					
1	TSS	30.2	<100	mg/lit	IS: 3025 Part-17 (R.A : 1996)
2	TDS	645.3	<2100	mg/lit	IS: 3025 Part-17 (R.A : 1996)
Chemical Parameter					
1	pH	7.11	5.5-9.0	--	IS: 3025 Part-11 (R.A : 2002)
2	BOD	40.8	<100	mg/lit	IS: 3025 Part-44 (R.A : 2003)
3	COD	149	<250	mg/lit	IS: 3025 Part-58 (R.A : 2006)
4	Oil & Grease	BDL	<10	mg/lit	IS: 3025 Part-39 (R.A : 2003)
5	Chlorides	84.6	<600	mg/lit	IS: 3025 Part 32 (R.A : 2003)
6	Sulphate	103.2	<1000	mg/lit	APHA :22nd edition -(4500- SO42- E)

REMARKS / OBSERVATIONS: Above all parameters are within limits as per MPCB.



Authorized Signatory

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Report No: GCI/V/Lab/EM-SP/22-23/Feb-00/

Date: 04/03/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Boiler Stack/ Feb-2023/ 03/ 2022- 2023
		Location	Boiler Stack
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	1 no
		Date of Sampling	25/02/2023
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	Stack Monitoring kit
Analysis Completing On	04/03/2023	Sampling Method	Isokinetic Sampling

PROCESS STACK DETAILS

Sr. No.	Particulars	Details	Unit
1	Material of Stack	RCC	--
2	Stack Height from G.L.	71.0	mtr.
3	Type of Stack	Round	--
4	Fuel Type	Bagasse	--
5	Flue Gas Temperature	128	°C
6	Differential Pressure	4.1	mmWG
7	Velocity	7.8	m/s
8	Diameter of Stack	3.0	Mtr
9	Gas Volume	138045.8	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	123.2	mg/Nm ³	≤150.00	IS:11255 (Part -1)-1985
2.	Sulphur Dioxide (SOx)	73.5	Kg/day	4704	IS:11255 (Part -1)-1985



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ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / DG Stack/ Feb- 2023 / 04/ 2022- 2023
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Location	DG Set Stack 320 KVA
		Quantity	1 No.
Sampling Collected By	Universal Associates	Date of Sampling	25/02/2023
		Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	Stack Monitoring kit
Analysis Completing On	04/03/2023	Sampling Method	Isokinetic Sampling

STACK DETAILS

Sr.	Particulars	Details	Unit
1	Material of Stack	MS	--
2	Stack Height from G.L.	6	Mtr.
3	Type of Stack	Round	--
4	Fuel Type	HSD	--
5	Flue Gas Temperature	90	°C
6	Differential Pressure	3.5	Mmwg
7	Velocity	6.89	m/s
8	Diameter of Stack	0.228	Mtr
9	Gas Volume	823.5	Nm ³ /Hr

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	Limits As Per MPCB Consent	Standard Method
1	Total Particulate Matter (TPM)	6.5	mg/Nm ³	≤ 150	IS:11255 (Part -1)-1985
2	SO ₂	2.9	Kg/day	≤ 8.18	IS:11255 (Part -1)-1985



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Date: 04/03/2023

ANALYSIS REPORT (For the Month of Feb-2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Feb 2023 / 05/ 2022- 2023
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Location	Near Main Gate 1
		Quantity	Ambient Air
Sampling Collected By	Universal Associates	Date of Sampling	25/02/2023
		Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	04/03/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS					
Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM10)	58.3	$\mu\text{g}/\text{m}^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM2.5)	20.4	$\mu\text{g}/\text{m}^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to Part
3	Sulphur Dioxide (SO2)	10.06	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NOx)	14.8	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O3)	3.3	$\mu\text{g}/\text{m}^3$	≤ 180	NAAQS Guideline
6	Lead (Pb)	BDL	$\mu\text{g}/\text{m}^3$	≤ 1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	0.022	$\mu\text{g}/\text{m}^3$	≤ 04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.



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Report No: GCI/V/Lab/EM-SP/22-23/Feb-00/

Date: 04/03/2023

ANALYSIS REPORT

(For the Month of Feb 2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Feb- 2023 / 06/ 2022- 2023
		Location	Outside Process Area –Sugar Unit
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	25/02/2023
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023
Analysis Starts on	25/02/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	04/03/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS					
Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	62.33	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	18.5	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	10.2	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	15.25	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	4.5	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

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Report No: GCI/V/Lab/EM-SP/22-23/feb-00/

Date: 04/03/2023

ANALYSIS REPORT (For the Month of Feb-2023)

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Feb- 2023/07/ 2022-2023
		Location	Outside Process Area –Cogen Unit
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	25/02/2023
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	04/03/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM10)	58.9	$\mu\text{g}/\text{m}^3$	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM2.5)	22.3	$\mu\text{g}/\text{m}^3$	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	11.6	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	17.8	$\mu\text{g}/\text{m}^3$	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	5.3	$\mu\text{g}/\text{m}^3$	≤ 180	NAAQS Guideline
6	Lead (Pb)	BDL	$\mu\text{g}/\text{m}^3$	≤ 1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	$\mu\text{g}/\text{m}^3$	≤ 04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Date: 04/03/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / Ambient Air/ Feb- 2023/08/ 2022-2023
		Location	Near ETP Area
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Ambient Air Monitoring
		Date of Sampling	25/02/2023
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	RDS, FPS, Bladder
Analysis Completing On	04/03/2023	Sampling Method	IS 5182: Part – 5: 1975

TEST PARAMETERS

Sr. No.	Parameter	Result	Unit	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	55.9	µg/m ³	≤ 100	IS : 5182 (Part 23)-2006
2	Particulate Matter (PM _{2.5})	20.3	µg/m ³	≤ 60	USEPA (40 CFR Ch.-1)Appendix L to
3	Sulphur Dioxide (SO ₂)	10.04	µg/m ³	≤ 80	IS : 5182 (Part 2)-2001
4	Oxides of Nitrogen (NO _x)	16.3	µg/m ³	≤ 80	IS : 5182 (Part 6)-2006
5	Ozone (O ₃)	5.9	µg/m ³	≤180	NAAQS Guideline
6	Lead (Pb)	BDL	µg/m ³	≤1.0	NAAQS Guideline
7	Carbon Monoxide (CO)	BDL	µg/m ³	≤04	IS :5182 (Part 10) : 1999

REMARKS / OBSERVATIONS:

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Date:04/03/2023

ANALYSIS REPORT

Client Details		Sample Details	
Name	M/s Olam Global Agri Commodities India Private Limited	Sample Code	GC/ OGACIPL / NM/ Feb-2023 / 09/ 2022- 2023
		Location	As per Table
Address	Gut No. 76, Chennati Village Rajgoli Khurd, Taluka Chandgad, Dist. Kolhapur-416507	Quantity	Noise Monitoring
		Date of Sampling	25/02/2023
Sampling Collected By	Universal Associates	Date of Sample Received	26/02/2023
Analysis Starts on	26/02/2023	Sampling Instrument	Sound Level Meter
Analysis Completion On	04/03/2023	Sampling Method	Sound level Meter Instrument Manual

Sr. No.	Location	Result		Unit
		Day Time 02:40 pm. Onwards	Night Time 10:30 pm. Onwards	
	Ambient Area			
01	Near Main Gate	56.8	58.0	dB(A)
02	Near ETP	55.9	56.2	dB(A)
03	Outside Process Area -	57.3	58.7	dB(A)
	Work zone Area			
01	Inside process Area,	63.3	64.1	dB(A)
02	Boiler Area	66.2	64.5	dB(A)

REMARK / OBSERVATIONS:

Maharashtra Pollution Control Board has prescribed 75 dB (A) as an upper limit of Noise Level during day time and 70 dB (A) at night time. Above results are within the prescribed limits by MPCB.

Area	Category of Area	Limits dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	<75	<70
B	Commercial Area	<65	<55
C	Residential Area	<55	<45
D	Silence Zone	<50	<40

- > **Note: 1 Day Time shall mean from 06:00 am to 10:00 pm**
- > **Note: 2 Night Time shall mean from 10:00 pm to 06:00 am**



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