



EHS MATRIX

PRIVATE LIMITED

Sr. No.30/7, Office No. 202, 203, Chintamani Industrial Estate,
Near Dran Company, Dhayari, Pune - 411041, Maharashtra, India.
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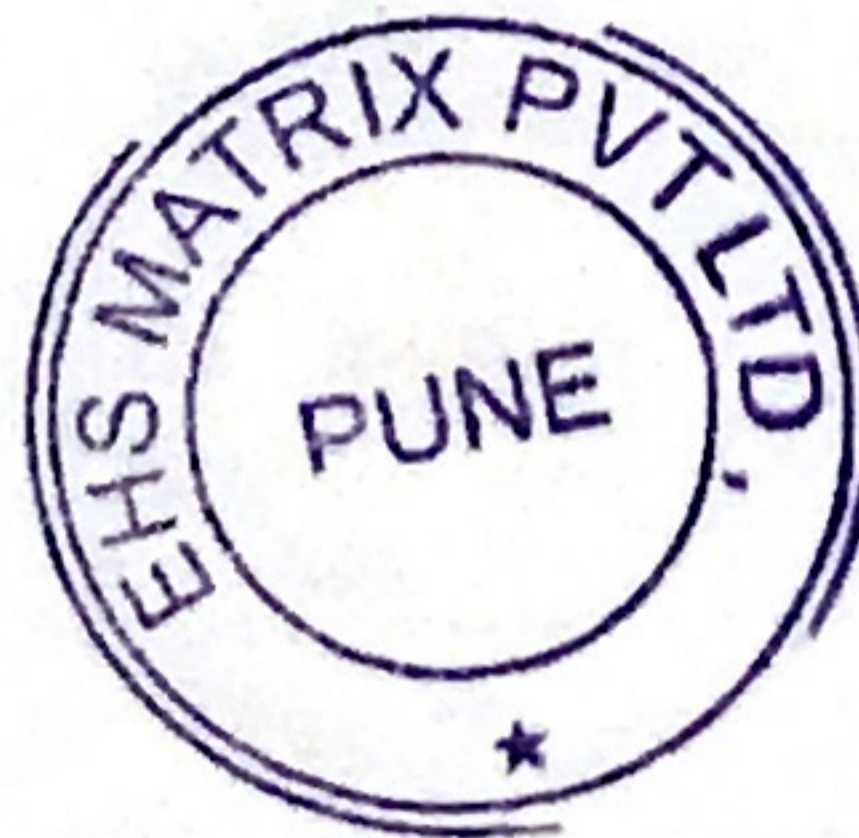
TEST REPORT

Report No:	EHSM/2024/Jan/R-145	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post-Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	09/01/2024	Sampling duration	1440 Min
Sampling Location	Near Material Store Office	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	31°C	Wet bulb temperature	26°C
Relative Humidity	75%	Sampling done by	EHS Matrix Pvt. Ltd., Pune
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	20.3	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO ₂)	24.1	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	65.8	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	29.1	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	0.63	mg/m ³	≤ 04	
6	Ozone(O ₃)	18.0	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃)	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	

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



Authorized Signatory
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(Director)

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CERTIFICATIONS
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018



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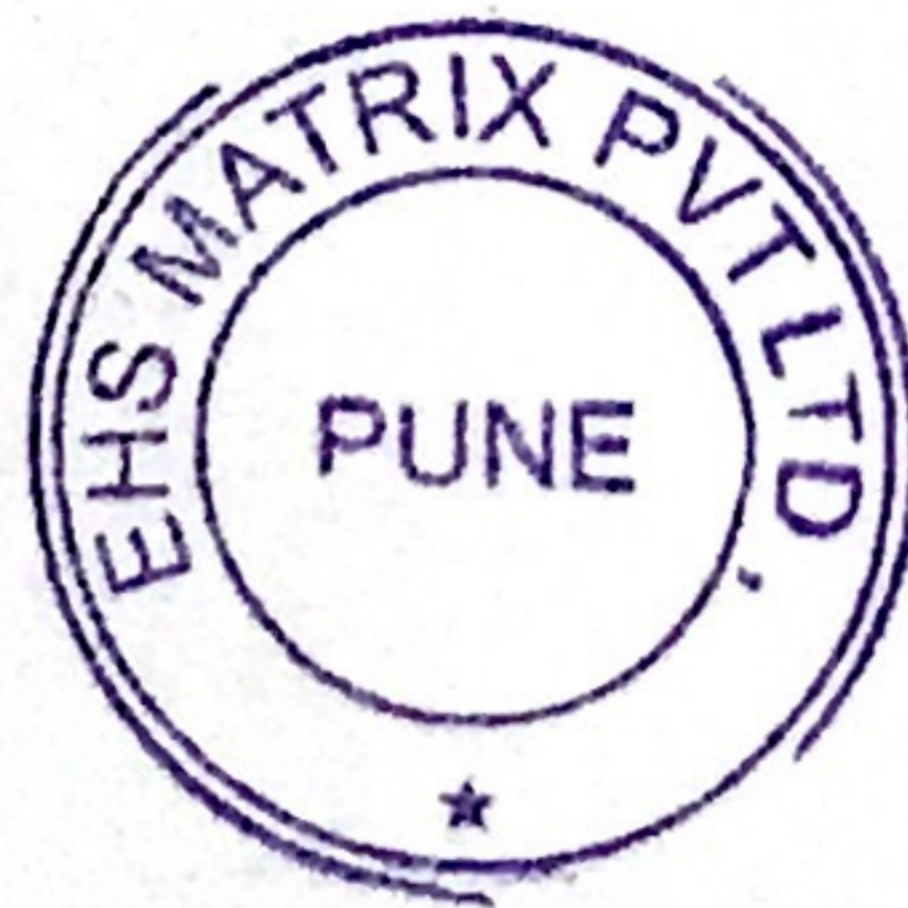
TEST REPORT

Report No:	EHSM/2024/Jan/R-146	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	09/01/2024	Sampling duration	1440 Min
Sampling Location	Near Main Gate	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	31°C	Wet bulb temperature	26°C
Relative Humidity	75%	Sampling done by	EHS Matrix Pvt. Ltd., Pune
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	23.6	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO ₂)	25.1	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	75.0	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	33.0	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	0.6	mg/m ³	≤ 04	
6	Ozone(O ₃)	18.0	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃)	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	

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



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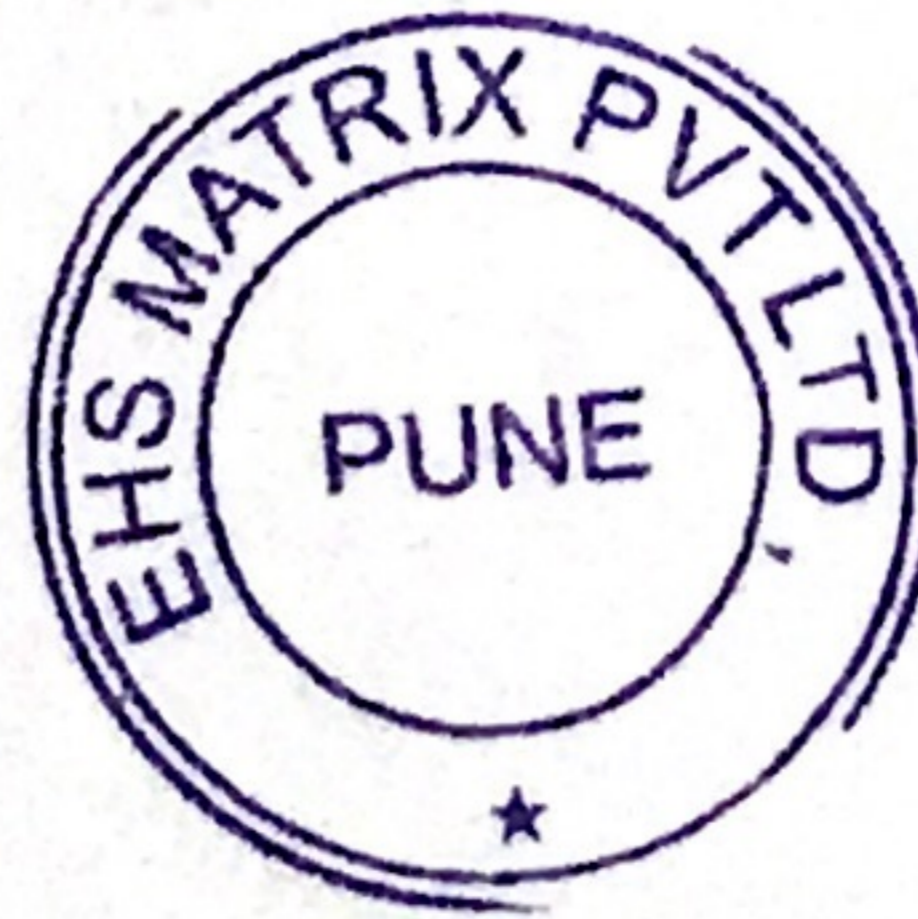
TEST REPORT

Report No:	EHSM/2024/Jan/R-147	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	09/01/2024	Sampling duration	1440 Min
Sampling Location	Near Diffuser	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	30°C	Wet bulb temperature	27°C
Relative Humidity	75%	Sampling done by	EHS Matrix Pvt. Ltd., Pune
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	19.6	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO ₂)	24.8	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	71.0	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	31.0	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	0.7	mg/m ³	≤ 04	
6	Ozone(O ₃)	18.0	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃)	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	

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




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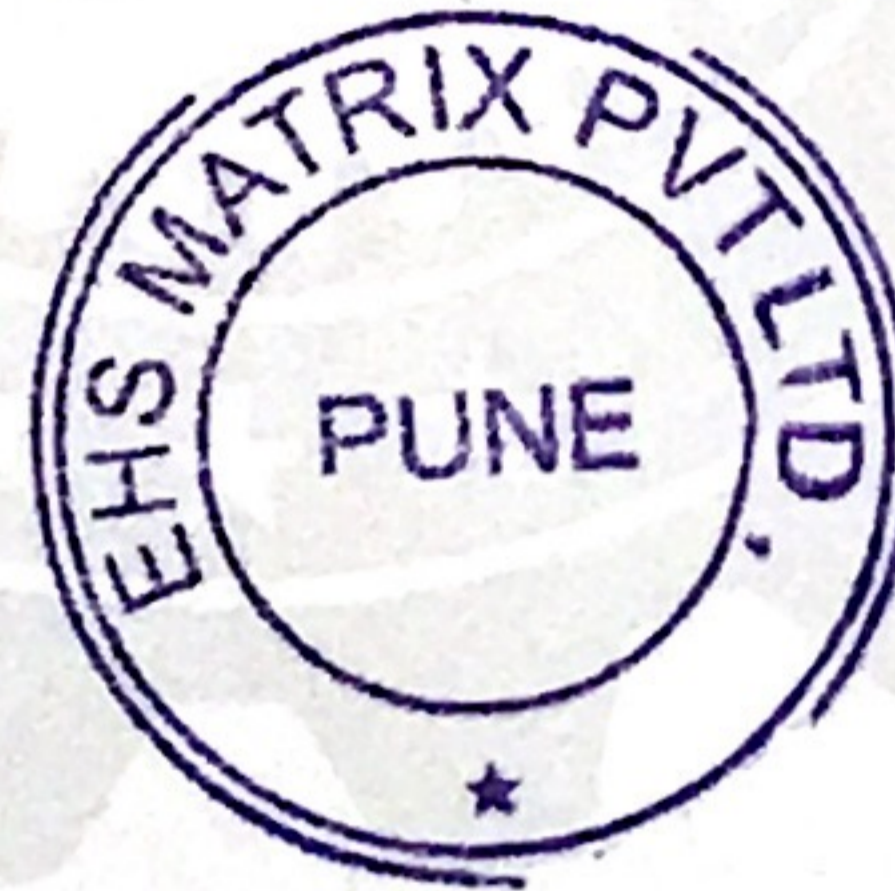
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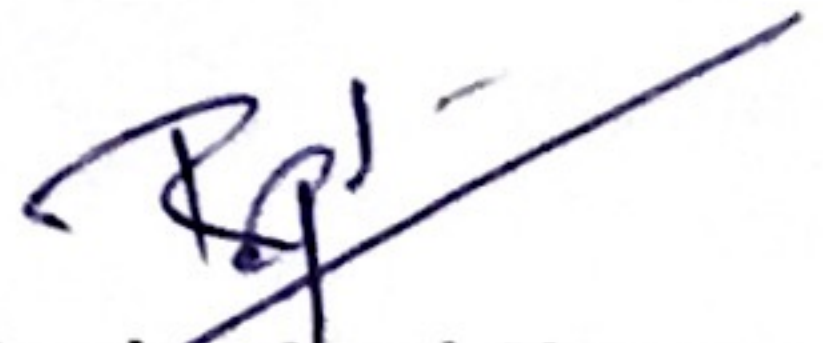
Report No:	EHSM/2024/Jan/R-148	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Workzone	Sample Description	Workzone Air
Date of Sampling	09/01/2024	Sampling duration	60 Min
Sampling Location	Sugar Filling Station	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	30°C	Wet bulb temperature	26°C
Relative Humidity	66%	Sampling done by	EHS Matrix Pvt. Ltd., Pune
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (The Factories Act 1948, standards)	Methods
1	Sulphur Dioxide(SO ₂)	13.0	µg/m ³	≤ 5000	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO ₂)	17.0	µg/m ³	≤ 6000	IS 5182 (Part 6)
3	Respirable Particular Matter	29.0	µg/m ³	N.S.	CPCB Guideline for measurement of Ambient Air pollutants Volume I

➤ Remark- All above results are well within The Factories Act, 1948 Standards.
N.S.: - Not Specified




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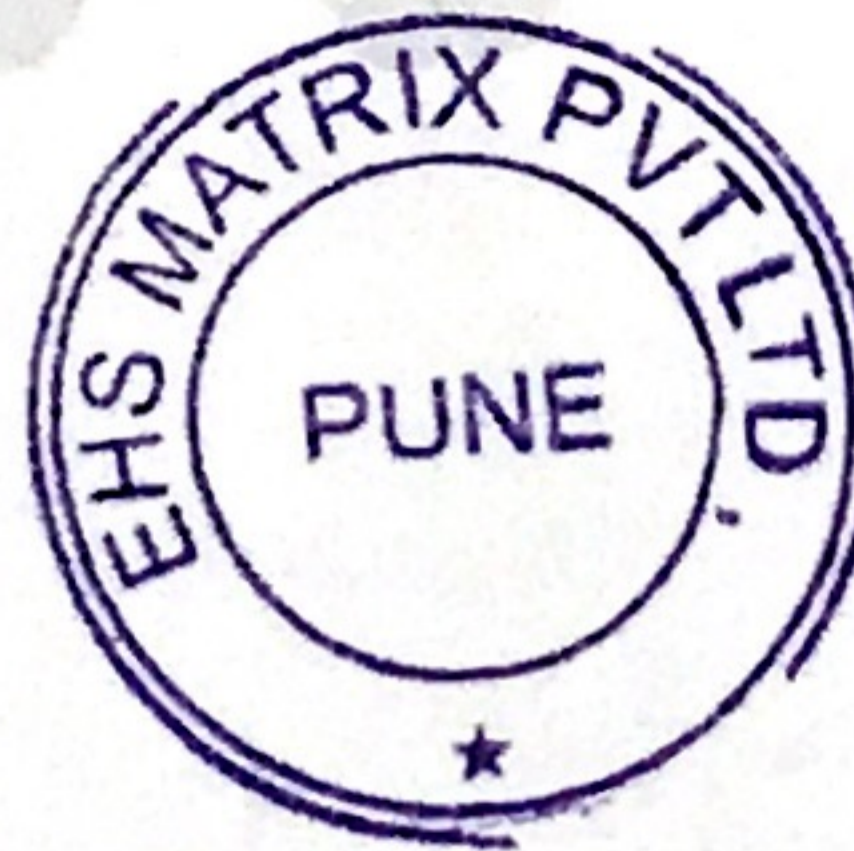
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Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Source Emission	Sample Description	Stack Material : RCC
Date of Sampling	09/01/2024		Stack Height : 65.0
Sampling Location	Boiler Stack		Stack Type : Round
Sampling done by	EHS Matrix Pvt. Ltd., Pune	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	381	K		---
2	Differential Pressure	5.0	mm WG		
3	Velocity	7.3	M/s		
4	Dimensions of Stack	5.3	Mtr.		
5	Stack Area	22.05	M ²		
6	Gas Volume	504123.0	Nm ³ /Hr		
7	Particulate Matter	60.0	mg/Nm ³	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	SulphurDioxide(SO ₂)	55.0	mg/Nm ³	--	
9	SulphurDioxide(SO ₂)	62.0	Kg/day	5568.0	

➤ Remark - All above results are well within MPCB Limit.



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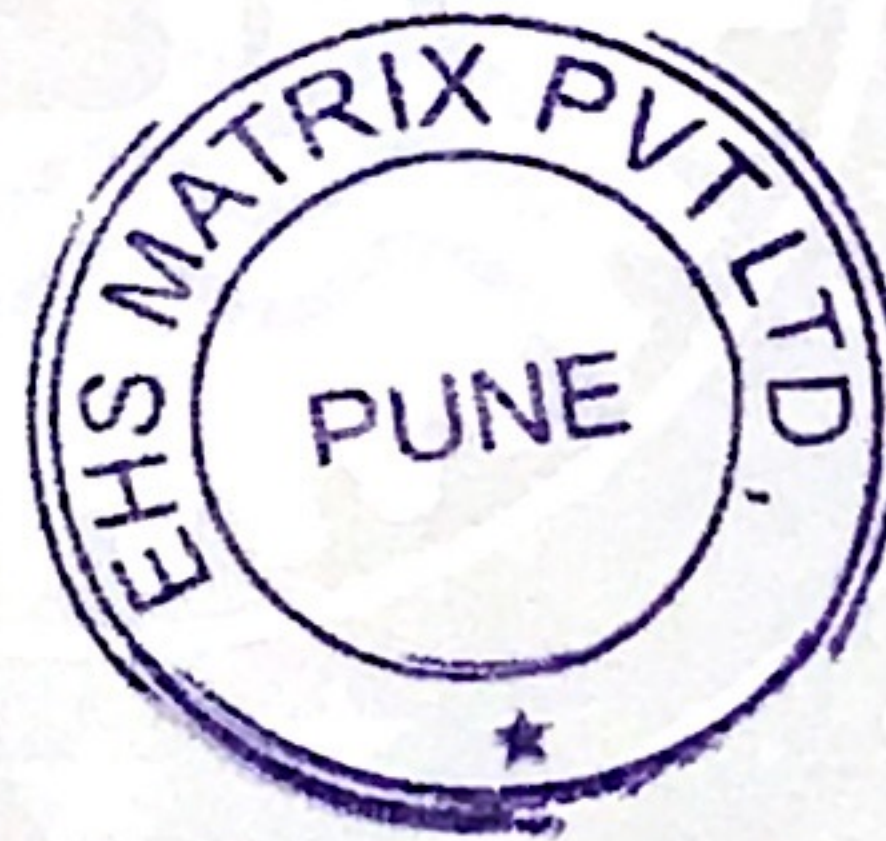
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TEST REPORT

Report No:	EHSM/2024/Jan/R-150	Issue Date	15/01/2024		
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401				
Sample Name	Noise	Sample Description	Ambient Noise		
Date of Sampling	09/01/2024	Sampling duration	Spot Time		
Sampling done by	EHS Matrix Pvt. Ltd., Pune				
Results					
Sr. No.	Locations	Result dB(A) Day	Result dB(A) Night	Specifications (CPCB Standards dB(A))	Method
1.	Near Main Gate	72.5	62.0	75/70	CPCB Guideline
2.	Near Material Store	66.0	52.0		
3.	Near Diffuser	65.3	52.0		
4.	Near Boiler	72.6	65.2		
5.	Near ETP	68.5	63.1		
➤ Remark-All above Noise level results are within Central Pollution Control Board Standards limit.					
➤ Day/Night -75/70 dB.					



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TEST REPORT


Report No:	EHSM/2024/Jan/R-151	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Waste water	Sample Description	ETP Inlet
Date of Sampling	09/01/2024	Sampling Time	11:30 AM
Sampling Location	ETP Plant	Sampling Procedure	APHA 1060
Sampling done by	EHS Matrix Pvt. Ltd., Pune	Sample Quantity	02L
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

No.	Parameters	Results	Unit(s)	Methods
1	pH at 25°C	4.06	--	APHA 4500 H ⁺ B, 23 rd Ed.2017
2	Total Suspended Solids	141.0	mg/L	APHA 2540 D, 23 rd Ed.2017
3	Biochemical Oxygen Demand at 27°C for 3 days	1169.0	mg/L	IS 3025 (Part 44):2019
4	Chemical Oxygen Demand	3512.0	mg/L	IS 3025 (Part 58):2017
5	Oil & Grease	10.0	mg/L	APHA 5520 B, 23 rd Ed.2017
6	Total Dissolved Solids	1869.0	mg/L	APHA 2540 C, 23 rd Ed.2017
7	Chlorides (as Cl ⁻)	276.0	mg/L	APHA 4500 Cl ⁻ , 23 rd Ed.2017
8	Sulphates (as SO ₄)	748.0	mg/L	IS 3025 (Part 24):2022

Remark(s)-




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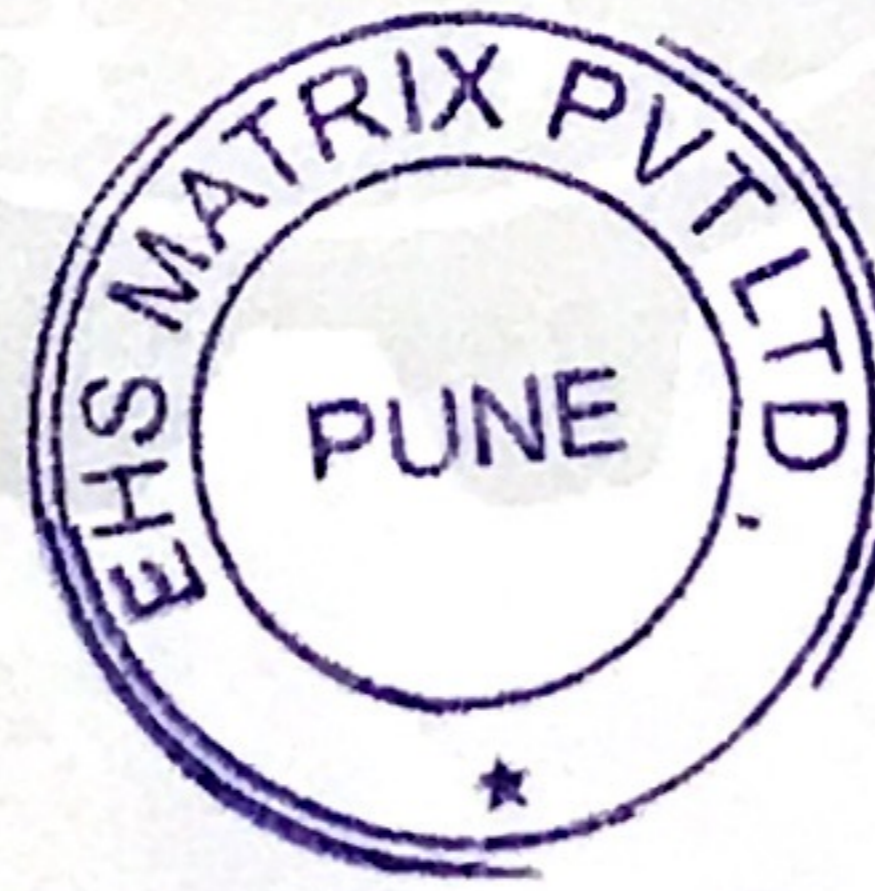
TEST REPORT

Report No:	EHSM/2024/Jan/R-152	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Waste water	Sample Description	ETP Outlet
Date of Sampling	09/01/2024	Sampling Time	11:10 AM
Sampling Location	ETP Plant	Sampling Procedure	APHA 1060
Sampling done by	EHS Matrix Pvt. Ltd., Pune	Sample Quantity	02L
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

No.	Parameters	Results	Limits	Unit(s)	Methods
1	pH at 25°C	7.12	5.5-9.0	--	APHA 4500 H ⁺ B, 23 rd Ed.2017
2	Total Suspended Solids	75.0	100	mg/L	APHA 2540 D, 23 rd Ed.2017
3	Biochemical Oxygen Demand at 27°C for 3 days	65.0	100	mg/L	IS 3025 (Part 44):2019
4	Chemical Oxygen Demand	198.0	250	mg/L	IS 3025 (Part 58):2017
5	Oil & Grease	<5.0	10	mg/L	APHA 5520 B, 23 rd Ed.2017
6	Total Dissolved Solids	1824.0	2100	mg/L	APHA 2540 C, 23 rd Ed.2017
7	Chlorides (as Cl ⁻)	352.0	600	mg/L	APHA 4500 Cl ⁻ , 23 rd Ed.2017
8	Sulphates (as SO ₄)	220.0	1000	mg/L	IS 3025 (Part 24):2022

Remark(s)- All above results are well within Limit.




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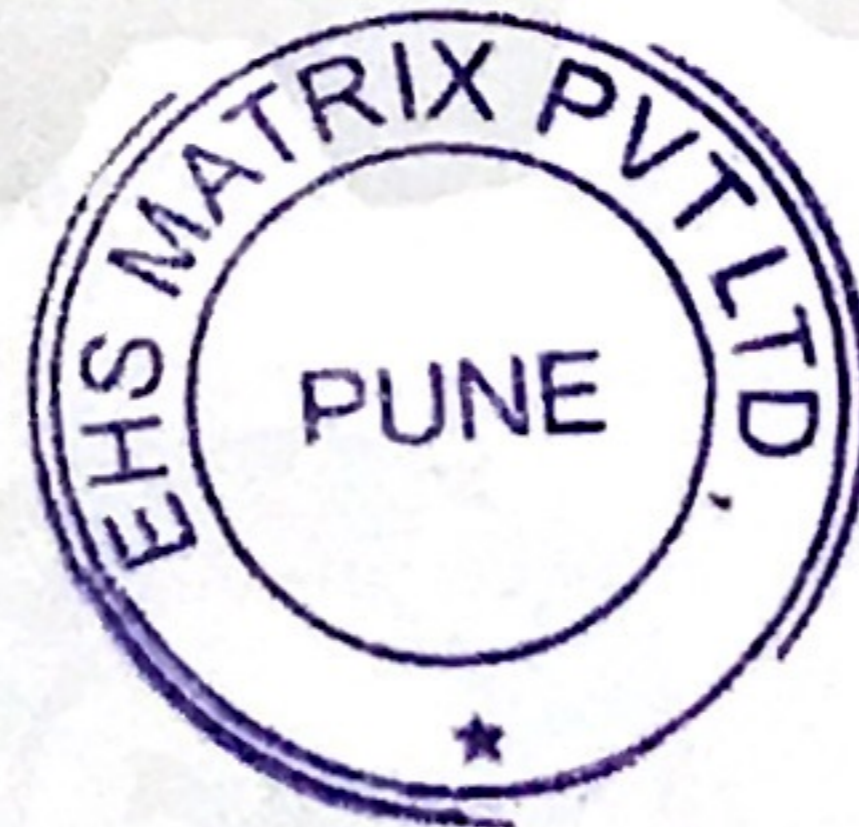
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TEST REPORT

Report No:	EHSM/2024/Jan/R-153	Issue Date	15/01/2024
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Ground Water	Sample Description	Ground Water
Date of Sampling	09/01/2024	Sampling Time	12.30 PM
Sampling Location	Borewell Water	Sampling Procedure	APHA 1060
Sampling done by	EHS Matrix Pvt. Ltd., Pune.	Sample Quantity	02 L
Start Date of Analysis	10/01/2024	End Date of Analysis	15/01/2024

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (IS 10500:2012)	Methods
1	pH at 25°C	7.23	--	6.5 to 8.5	APHA 4500 H ⁺ B, 23 rd Ed.2017
2	EC	1125	µs/cm	-	APHA 2510 B, 23 rd Ed.2017
3	Odour	Agreeable	--	Agreeable	IS 3025 (Part 5):2018
4	Chloride (as Cl ⁻)	128.0	mg/L	Max 250	APHA 4500 Cl ⁻ B, 23 rd Ed.2017
5	Total Alkalinity (as CaCO ₃)	165.0	mg/L	Max 200	IS 3026 (Part 23):2019
6	Total Hardness (as CaCO ₃)	173.0	mg/L	Max 200	IS 3026 (Part 21):2019
7	Total Dissolved Solids (TDS)	389.0	mg/L	Max 500	APHA 2640 C, 23 rd Ed.2017
8	Sulphate (as SO ₄)	105.0	mg/L	Max 200	IS 3026 (Part 24):2022
9	Calcium (as Ca)	75.0	mg/L	Max 75	IS 3026 (Part 40):2019
10	Magnesium (as Mg)	22.0	mg/L	Max 30	IS 3026 (Part 46):2019
11	Nitrate (as NO ₃)	20.0	mg/L	Max 45	APHA 4500 NO ₃ ⁻ -B, 23 rd Ed.2017
12	Iron (as Fe)	<0.1	mg/L	Max 0.3	APHA 3111 B, 23 rd Ed.2017
13	Total Coliform	Absent	CFU/100ml	Absent	IS 1622:2019
14	E.coli.	Absent	CFU/100ml	Absent	IS 1622:2019




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Near Swayamsiddha Trust Building,
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CERTIFICATIONS
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018



EHS MATRIX

PRIVATE LIMITED

Sr. No.30/7, Office No. 202, 203, Chintamani Industrial Estate,
Near Dran Company, Dhayari, Pune - 411041, Maharashtra, India.
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www.ehsmatrix.co.in ehsmatrixpune@gmail.com

TEST REPORT

Report No:	EHSM/2023/Nov/R-1229	Issue Date	18/11/2023
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post-Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	13/11/2023	Sampling duration	1440 Min
Sampling Location	Near Material Store Office	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	31°C	Wet bulb temperature	26°C
Relative Humidity	75%	Sampling done by	EHS Matrix Pvt. Ltd., Pune
Start Date of Analysis	14/11/2023	End Date of Analysis	18/11/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	19.5	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO ₂)	23.0	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	67.0	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	28.0	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	0.62	mg/m ³	≤ 04	
6	Ozone(O ₃)	19.0	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃)	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	

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




Authorized Signatory
Mr. Rahul Patil
(Director)

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TEST REPORT

Report No:	EHSM/2023/Nov/R-1230	Issue Date	18/11/2023
Name and Address of Customer	M/s. Babanraoji Shinde Sugar & Allied Industries Ltd., At Turkpimpri, Post Malwandi, Tal. Barshi, Dist. Solapur -413401		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	13/11/2023	Sampling duration	1440 Min
Sampling Location	Near Main Gate	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	31°C	Wet bulb temperature	26°C
Relative Humidity	75%	Sampling done by	EHS Matrix Pvt. Ltd., Pune
Start Date of Analysis	14/11/2023	End Date of Analysis	18/11/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	22.0	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen(NO ₂)	26.0	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	76.5	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	34.0	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	0.8	mg/m ³	≤ 04	
6	Ozone(O ₃)	19.0	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃)	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	

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



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Authorized Signatory
Mr. Rahul Patil
(Director)

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