

- ENVIRONMENTAL: CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.) PH.: (0231) 2531231, TELEFAX : (0231) 2526337 MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.) MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.) MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
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DATE: OCTOBER 22, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/239
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	11.10.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	09:30 A.M.	
03	Ambient Temperature	28 °C	
04	Dry Bulb Temperature	28 °C	
05	Wet Bulb Temperature	22 °C	
06	Relative Humidity	59 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	64.80 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	28.60 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	12.10 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	21.90 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC, New Delhi approved and NABL accredited laboratory-M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations..
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, 18 November 2009.

Dr. Sandip Mangalekar
(Deputy Head Monitoring)

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Report No.:	EEIPL/REP/2019.20/240
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	11.10.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Ranjani Village Downwind	
02	Time of Sampling	11:30 A.M.	
03	Ambient Temperature	34 °C	
04	Dry Bulb Temperature	34 °C	
05	Wet Bulb Temperature	30 °C	
06	Relative Humidity	75 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	46.70 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	16.40 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	16.90 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	24.80 µg/cum	80 µg/cum

Note:

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AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/241
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	11.10.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Pimpalgaon Village Upwind	
02	Time of Sampling	10:50 A.M.	
03	Ambient Temperature	32 °C	
04	Dry Bulb Temperature	32 °C	
05	Wet Bulb Temperature	28 °C	
06	Relative Humidity	74 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	44.20 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	16.70 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	13.60 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	18.90 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations..
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, 18 November 2009.

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DATE: OCTOBER 22, 2019

WORKZONE AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/242
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation.
Date of Sampling:	11.10.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS/EPA/*
01	Test Location	Near Boiler	
02	Time of Sampling	10:20 A.M.	
03	Ambient Temperature	32 °C	
04	Dry Bulb Temperature	32 °C	
05	Wet Bulb Temperature	28 °C	
06	Relative Humidity	74 %	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	37.40 µg/cum	150 µg/cum
09	Particulate Matter (PM _{2.5})	12.30 µg/cum	65 µg/cum
10	Sulphur Dioxide	11.30 µg/cum	200 µg/cum
11	Oxides of Nitrogen	16.90 µg/cum	190 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.
- NAAQS/EPA: The National Ambient Air Quality Standards) were developed by the U.S. 2000.
- *ASHRAE (American Society of Heating, Refrigerating and Air-conditioning Engineers Inc.) Standard 55.

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DATE: OCTOBER 22, 2019

NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/243
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Sampling Date :	11.10.2019
Time Of Sampling:	10:35 A.M.

RESULTS

SR.NO.	LOCATION	READINGS dB(A)	LIMITS (Refer Note Below)
AMBIENT			
01	Near Main Gate	58.7	75
02	Near Weighing Bridge	61.2	75
03	Near Spray Pond	63.8	75
04	Near Sugar Godown	64.9	75
05	Near Bagasse Yard	63.8	75
WORK ZONE			
01	Mixing Section	62.5	90
02	Boiler Section	65.3	90
03	Juice Clarification Section	65.1	90
04	Centrifuge Section	64.9	90
05	Sugar House	65.4	90

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Green EnviroSAFE Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.
- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.
- The Factories' Act, 1948 has prescribed Work Zone Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

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DATE: OCTOBER 22, 2019

GROUND WATER SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2019.20/244
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Sampling Date:	11.10.2019
Analysis Date:	12.10.2019
Sample Name:	Ranjani Village

RESULTS

SR. NO.	TEST DESCRIPTION	RESULT	LIMIT AS PER IS10500:2012	UNIT
01	Colour	Clear	<5.00	Hazen Unit
02	Odour	Agreeable	Agreeable	--
03	pH	7.00	6.5 -8.5	--
04	Alkalinity as CaCO ₃	30.25	<200.00	mg/lit
05	Chemical Oxygen Demand (COD)	5.78	Not Specified	mg/lit
06	Biochemical Oxygen Demand (BOD)	2.01	Not Specified	mg/lit
07	Total Dissolved Solids (TDS)	357.24	<500.00	mg/lit
08	Chlorides as Cl ⁻	29.96	<250.00	mg/lit
09	Total Hardness as CaCO ₃	79.53	<200.00	mg/lit
10	Calcium as Ca	20.57	<075.00	mg/lit
11	Magnesium as Mg	6.82	<030.00	mg/lit
12	Sodium as Na	1.08	Not Specified	mg/lit
13	Potassium as K	2.59	Not Specified	mg/lit
14	Turbidity	0.06	<001.00	NTU
15	Electric Conductance	533.18	Not Specified	µS/cm
16	Fluorides as F-	0.01	< 1.00	mg/lit
17	Chromium as Cr	BDL	< 0.05	mg/lit
18	Cadmium as Cd	BDL	<0.003	mg/lit
19	Nickel as Ni	BDL	< 0.02	mg/lit
20	Zinc as Zn	BDL	<5.00	mg/lit

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.
- BDL: Below Detectable Limit.


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