

- 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
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DATE: AUGUST 28, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/186
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	20.08.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	11:00 A.M.	
03	Ambient Temperature	29 °C	
04	Dry Bulb Temperature	29 °C	
05	Wet Bulb Temperature	25 °C	
06	Relative Humidity	73 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	61.60 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	18.00 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	14.30 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	22.80 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
(Dy. Head Monitoring)

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WORKZONE AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/187
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation.
Date of Sampling:	20.08.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS/EPA*
01	Test Location	Near Boiler	
02	Time of Sampling	12:10 P.M.	
03	Ambient Temperature	28 °C	
04	Dry Bulb Temperature	28 °C	
05	Wet Bulb Temperature	24 °C	
06	Relative Humidity	72 %	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	54.40 µg/cum	150 µg/cum
09	Particulate Matter (PM _{2.5})	12.00 µg/cum	65 µg/cum
10	Sulphur Dioxide	13.60 µg/cum	200 µg/cum
11	Oxides of Nitrogen	18.90 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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NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/188
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Sampling Date :	20.08.2019
Time Of Sampling:	11:15 A.M.

RESULTS

SR.NO.	LOCATION	READINGS dB(A)	LIMITS (Refer Note Below)
AMBIENT			
01	Near Main Gate	63.8	75
02	Near Weighing Bridge	58.2	75
03	Near Spray Pond	55.1	75
04	Near Sugar Godown	56.6	75
05	Near Bagasse Yard	57.5	75
WORK ZONE			
01	Mixing Section	64.0	90
02	Boiler Section	66.9	90
03	Juice Clarification Section	65.3	90
04	Centrifuge Section	63.4	90
05	Sugar House	61.5	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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COMPOST SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2019.20/189
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	20.08.2019
Analysis Date:	21.08.2019
Sample Name:	Compost Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	Moisture Content	10.60	%
02	pH	8.10	--
03	Total Volatile Solids	41.00	%
04	Residual Ash Content	9.20	%
05	Available Nitrogen as N	765.30	Mg/Kg
06	Phosphorous as P	368.90	Mg/Kg
07	Potassium as K	246.50	Mg/Kg
08	Organic Carbon	37.12	%
09	C/N Ratio	29.93	---

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LEACHATE SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2019.20/190
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	20.08.2019
Analysis Date:	21.08.2019
Sample Name:	Leachate Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	pH	7.70	-----
02	Electric Conductance	27654.20	µS/cm
03	Chemical Oxygen Demand	21200.00	mg/lit
04	Biological Oxygen Demand	4980.00	mg/lit
05	Chlorides as Cl ⁻	8247.00	mg/lit

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