

- 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: JUNE 14, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/67A
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	06.06.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:00 A.M.	
03	Ambient Temperature	27 °C	
04	Dry Bulb Temperature	27 °C	
05	Wet Bulb Temperature	22 °C	
06	Relative Humidity	65 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	60.50 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	20.90 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	18.90 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	28.70 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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AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/67B
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	06.06.2019

RESULTS

Sr. No.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Ranjani Village Upwind	
02	Time of Sampling	11:30 A.M.	
03	Ambient Temperature	30 °C	
04	Dry Bulb Temperature	30 °C	
05	Wet Bulb Temperature	25 °C	
06	Relative Humidity	67 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	51.40 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	16.90 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	14.60 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	22.10 µg/cum	80 µg/cum

Note:

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AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/67C
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Date of Sampling :	06.06.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Ghargaon Village Downwind	
02	Time of Sampling	01:00 P.M.	
03	Ambient Temperature	34 °C	
04	Dry Bulb Temperature	34 °C	
05	Wet Bulb Temperature	29 °C	
06	Relative Humidity	69 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	58.90 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	17.80 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	15.60 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	21.40 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: JUNE 14, 2019

WORKZONE AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2019.20/67D
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation.
Date of Sampling:	06.06.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS/EPA/*
01	Test Location	Mill Section	
02	Time of Sampling	12:10 P.M.	
03	Ambient Temperature	33 °C	
04	Dry Bulb Temperature	33 °C	
05	Wet Bulb Temperature	28 °C	
06	Relative Humidity	69%	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	52.60 µg/cum	150 µg/cum
09	Particulate Matter (PM _{2.5})	18.70 µg/cum	65 µg/cum
10	Sulphur Dioxide	10.10 µg/cum	200 µg/cum
11	Oxides of Nitrogen	16.40 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/2019.20/67E
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation.
Sampling Date :	06.06.2019
Time Of Sampling:	10:25 A.M.

RESULTS

SR.NO.	LOCATION	READINGS dB(A)	LIMITS (Refer Note Below)
AMBIENT			
01	Near Main Gate	59.2	75
02	Near Weighing Bridge	54.3	75
03	Near Spray Pond	52.5	75
04	Near Sugar Godown	64.9	75
05	Near Bagasse Yard	56.1	75
WORK ZONE			
01	Mixing Section	61.2	90
02	Boiler Section	66.5	90
03	Juice Clarification Section	68.4	90
04	Centrifuge Section	81.6	90
05	Sugar House	62.8	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/2019.20/67F
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	06.06.2019
Analysis Date:	07.06.2019
Sample Name:	Compost Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	Moisture Content	21.40	%
02	pH	7.60	--
03	Total Volatile Solids	34.00	%
04	Residual Ash Content	13.60	%
05	Available Nitrogen as N	687.90	mg/kg
06	Phosphorous as P	369.10	mg/kg
07	Potassium as K	256.80	mg/kg
08	Organic Carbon	42.60	%
09	C/N Ratio	26.40	---
10	Electrical Conductivity	12.40	mS/ppt

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DATE: JUNE 14, 2019

LEACHATE SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2019.20/67G
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	06.06.2019
Analysis Date:	07.06.2019
Sample Name:	Leachate Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	pH	7.50	-----
02	Electric Conductance	25154.30	µS/cm
03	Chemical Oxygen Demand	19580.00	mg/lit
04	Biological Oxygen Demand	4145.00	mg/lit
05	Chlorides as Cl ⁻	7452.00	mg/kg

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GROUND WATER SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2019.20/67H
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Sampling Date:	06.06.2019
Analysis Date:	07.06.2019
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	8.00	6.5 -8.5	--
04	Alkalinity as CaCO ₃	120.00	<200.00	mg/lit
05	Chemical Oxygen Demand (COD)	<5.00	Not Specified	mg/lit
06	Biochemical Oxygen Demand (BOD)	<1.00	Not Specified	mg/lit
07	Total Dissolved Solids (TDS)	277.00	<500.00	mg/lit
08	Chlorides as Cl ⁻	57.07	<250.00	mg/lit
09	Total Hardness as CaCO ₃	87.38	<200.00	mg/lit
10	Calcium as Ca	24.90	<075.00	mg/lit
11	Magnesium as Mg	6.10	<030.00	mg/lit
12	Sodium as Na	28.40	Not Specified	mg/lit
13	Potassium as K	14.60	Not Specified	mg/lit
14	Turbidity	<1.00	<001.00	NTU
15	Electric Conductance	413.42	Not Specified	µS/cm
16	Fluorides as F-	<0.01	< 1.00	mg/lit
17	Chromium as Cr	<0.01	< 0.05	mg/lit
18	Cadmium as Cd	<0.001	<0.003	mg/lit
19	Nickel as Ni	<0.01	< 0.02	mg/lit
20	Zinc as Zn	<0.01	<5.00	mg/lit

S.M.
Dr. Sandip Mangalekar
 (Dy. Head Monitoring)