

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,  
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.),  
PH.: (0231) 2531231, MOBILE: 9657865122
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com

**DATE: SEPTEMBER 10, 2020**

**AMBIENT AIR QUALITY MONITORING RESULTS**

Report No.:	EEIPL/REP/2020.21/162
Client :	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	Shut Down
Date of Sampling :	31.08.2020

**RESULTS**

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:45 A.M.	
03	Ambient Temperature	34 °C	
04	Dry Bulb Temperature	34 °C	
05	Wet Bulb Temperature	28 °C	
06	Relative Humidity	63.5 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM <sub>10</sub> )	59.23 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	16.91 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO <sub>2</sub> )	12.40 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO <sub>x</sub> )	19.82 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/2020.21/163
Client :	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	Shut Down
Date of Sampling :	31.08.2020

**RESULTS**

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Ranjani Village Downwind	
02	Time of Sampling	11:45 A.M.	
03	Ambient Temperature	38 °C	
04	Dry Bulb Temperature	38 °C	
05	Wet Bulb Temperature	32 °C	
06	Relative Humidity	65.7 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM <sub>10</sub> )	58.33 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	12.90 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO <sub>2</sub> )	14.11 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO <sub>x</sub> )	18.92 µg/cum	80 µg/cum

**Note:**

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**AMBIENT AIR QUALITY MONITORING RESULTS**

Report No.:	EEIPL/REP/2020.21/164
Client :	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	Shut Down
Date of Sampling :	31.08.2020

**RESULTS**

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Pimpalgaon Village Upwind	
02	Time of Sampling	10:05 A.M.	
03	Ambient Temperature	29 °C	
04	Dry Bulb Temperature	29 °C	
05	Wet Bulb Temperature	25 °C	
06	Relative Humidity	72.4 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM <sub>10</sub> )	52.36 µg/cum	100 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	12.84 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO <sub>2</sub> )	13.96 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO <sub>x</sub> )	16.32 µg/cum	80 µg/cum

**Note:**

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**WORKZONE AIR QUALITY MONITORING RESULTS**

Report No.:	EEIPL/REP/2020.21/165
Client:	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	Shut Down
Date of Sampling:	31.08.2020

**RESULTS**

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS/EPA/*
01	Test Location	Near Boiler	
02	Time of Sampling	10:45 A.M.	
03	Ambient Temperature	36 °C	
04	Dry Bulb Temperature	36 °C	
05	Wet Bulb Temperature	28 °C	
06	Relative Humidity *	54.6 %	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM <sub>10</sub> )	54.86 µg/cum	150 µg/cum
09	Particulate Matter (PM <sub>2.5</sub> )	14.90 µg/cum	65 µg/cum
10	Sulphur Dioxide	13.44 µg/cum	200 µg/cum
11	Oxides of Nitrogen	16.02 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/2020.21/166
Client :	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	Shut Down
Sampling Date :	31.08.2020
Time Of Sampling:	03:00 P.M.

**RESULTS**

SR.NO.	LOCATION	READINGS dB(A)	LIMITS (Refer Note Below)
<b>AMBIENT</b>			
01	Near Main Gate	56.1	75
02	Near Weighing Bridge	57.4	75
03	Near Spray Pond	59.3	75
04	Near Sugar Godown	63.8	75
05	Near Bagasse Yard	64.2	75
<b>WORK ZONE</b>			
01	Mixing Section	59.3	90
02	Boiler Section	61.4	90
03	Juice Clarification Section	62.8	90
04	Centrifuge Section	61.4	90
05	Sugar House	64.3	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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**GROUND WATER SAMPLE ANALYSIS REPORT**

Report No.:	EEIPL/REP/2020.21/167
Client:	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Sampling Date:	31.08.2020
Analysis Date:	01.09.2020
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	7.58	6.5 -8.5	--
04	Alkalinity as CaCO <sub>3</sub>	18.96	<200.00	mg/lit
05	Chemical Oxygen Demand (COD)	5.59	Not Specified	mg/lit
06	Biochemical Oxygen Demand (BOD)	2.16	Not Specified	mg/lit
07	Total Dissolved Solids (TDS)	184.35	<500.00	mg/lit
08	Chlorides as Cl <sup>-</sup>	21.63	<250.00	mg/lit
09	Total Hardness as CaCO <sub>3</sub>	37.70	<200.00	mg/lit
10	Calcium as Ca	13.20	<075.00	mg/lit
11	Magnesium as Mg	1.15	<030.00	mg/lit
12	Sodium as Na	0.12	Not Specified	mg/lit
13	Potassium as K	0.23	Not Specified	mg/lit
14	Turbidity	0.01	<001.00	NTU
15	Electric Conductance	275.14	Not Specified	µS/cm
16	Fluorides as F-	BDL	< 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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**SURFACE WATER SAMPLE ANALYSIS REPORT**

Report No.:	EEIPL/REP/2020.21/168
Client:	<b>M/s Natural Sugar &amp; Allied Ind. Ltd.,</b>
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Sampling Date:	31.08.2020
Analysis Date:	01.09.2020
Sample Name:	Manjara Dam

**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	7.45	6.5 -8.5	--
04	Alkalinity as CaCO <sub>3</sub>	7.02	<200.00	mg/lit
05	Chemical Oxygen Demand (COD)	3.61	Not Specified	mg/lit
06	Biochemical Oxygen Demand (BOD)	1.24	Not Specified	mg/lit
07	Total Dissolved Solids (TDS)	155.06	<500.00	mg/lit
08	Chlorides as Cl <sup>-</sup>	11.38	<250.00	mg/lit
09	Total Hardness as CaCO <sub>3</sub>	17.56	<200.00	mg/lit
10	Calcium as Ca	5.63	<075.00	mg/lit
11	Magnesium as Mg	0.85	<030.00	mg/lit
12	Sodium as Na	BDL	Not Specified	mg/lit
13	Potassium as K	BDL	Not Specified	mg/lit
14	Turbidity	BDL	<001.00	NTU
15	Electric Conductance	231.43	Not Specified	µS/cm
16	Fluorides as F <sup>-</sup>	BDL	< 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:**

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- BDL: Below Detectable Limit.

  
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