

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
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DATE: DECEMBER 15, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/515
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation
Date of Sampling :	08.12.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:45 A.M.	
03	Ambient Temperature	32 °C	
04	Dry Bulb Temperature	32 °C	
05	Wet Bulb Temperature	20 °C	
06	Relative Humidity	32.2 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	61.83 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	18.45 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	15.91 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	21.60 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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DATE: DECEMBER 15, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/516
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation
Date of Sampling :	08.12.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Ranjani Village Downwind	
02	Time of Sampling	09:15 A.M.	
03	Ambient Temperature	25 °C	
04	Dry Bulb Temperature	25 °C	
05	Wet Bulb Temperature	17 °C	
06	Relative Humidity	44.2 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	56.23 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	14.78 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	13.69 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	16.20 µg/cum	80 µg/cum

Note:

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- 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: DECEMBER 15, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/517
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation
Date of Sampling :	08.12.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Pimpalgaon Village Upwind	
02	Time of Sampling	09:50 A.M.	
03	Ambient Temperature	28 °C	
04	Dry Bulb Temperature	28 °C	
05	Wet Bulb Temperature	19 °C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min	
08	Particulate Matter (PM ₁₀)	53.66 µg/cum	100 µg/cum
09	Particulate Matter (PM _{2.5})	13.10 µg/cum	60 µg/cum
10	Sulphur Dioxide (SO ₂)	12.75 µg/cum	80 µg/cum
11	Oxides of Nitrogen (NO _x)	14.87 µg/cum	80 µg/cum

Note:

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- 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: DECEMBER 15, 2020

WORKZONE AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/518
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Date of Sampling:	08.12.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS/EPA/*
01	Test Location	Near Boiler	
02	Time of Sampling	11:00 A.M.	
03	Ambient Temperature	33 °C	
04	Dry Bulb Temperature	33 °C	
05	Wet Bulb Temperature	20 °C	
06	Relative Humidity	29.1 %	
07	Sampling Duration	60 Min	
08	Particulate Matter(PM ₁₀)	62.86 µg/cum	150 µg/cum
09	Particulate Matter (PM _{2.5})	18.97 µg/cum	65 µg/cum
10	Sulphur Dioxide	17.40 µg/cum	200 µg/cum
11	Oxides of Nitrogen	22.72 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: DECEMBER 15, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/519
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS).
Plant Condition :	In Operation.
Date of Sampling :	08.12.2020
Time :	11:15 A.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS
01	Test Location	Boiler (30 TPH)
02	Material of Stack	RCC
03	Stack Height from ground level	60 M
04	Type of Stack	Round
05	Flue Gas Temperature	168 ⁰ C (441 K)
06	Differential Pressure	2.00 mm WG
07	Velocity	5.64 M/Sec
08	Stack Diameter	3.00 M
09	Stack Area	7.065 M ²
10	Gas Volume	97077.68 NM ³ /Hr

FLUE GAS QUALITY

SR. NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	58.66 mg/NM ³
02	Sulphur Dioxide (SO ₂)	31.29 mg/NM ³
		72.90 Kg/Day

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) Limits SPM: 150 mg / Ncum.
- Maharashtra Pollution Control Board (MPCB) Limits SO₂: As per Consent.

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DATE: DECEMBER 15, 2020

NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/520
Client :	M/s Natural Sugar & Allied Ind. Ltd.,
Site :	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition :	In Operation
Sampling Date :	08.12.2020
Time Of Sampling:	12:30 P.M.

RESULTS

SR.NO.	LOCATION	READINGS dB(A)	LIMITS (Refer Note Below)
AMBIENT			
01	Near Main Gate	62.5	75
02	Near Weighing Bridge	66.2	75
03	Near Spray Pond	62.4	75
04	Near Sugar Godown	60.0	75
05	Near Bagasse Yard	63.8	75
WORK ZONE			
01	Mixing Section	80.3	90
02	Boiler Section	81.5	90
03	Juice Clarification Section	82.6	90
04	Centrifuge Section	84.3	90
05	Sugar House	78.3	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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DATE: DECEMBER 15, 2020

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/521
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	08.12.2020
Analysis Date:	09.12.2020
Sample Name:	ETP-Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.75	7.82	5.5 - 9.0	--
02	Suspended Solids (SS)	137.90	68.41	100	mg/lit
03	Total Dissolved Solids (TDS)	1935.62	980.39	2100	mg/lit
04	Chemical Oxygen Demand (COD)	465.37	145.93	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	174.91	52.48	100	mg/lit
06	Chlorides as Cl ⁻	377.13	187.32	600	mg/lit
07	Sulphates as SO ₄ ⁻⁻	295.55	148.60	1000	mg/lit
08	Oil & Grease	3.10	BDL	10	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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DATE: DECEMBER 15, 2020

COMPOST SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/522
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	08.12.2020
Analysis Date:	09.12.2020
Sample Name:	Compost Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	Moisture Content	35.62	%
02	pH	7.55	--
03	Total Volatile Solids	15.92	%
04	Residual Ash Content	14.10	%
05	Available Nitrogen as N	859.03	mg/kg
06	Phosphorous as P	298.44	mg/kg
07	Potassium as K	386.19	mg/kg
08	Organic Carbon	14.96	%
09	C/N Ratio	12.04	---
10	Electrical Conductivity	9653.59	µS/cm

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.

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DATE: DECEMBER 15, 2020

LEACHATE SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/523
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Plant Condition:	In Operation
Sampling Date:	08.12.2020
Analysis Date:	09.12.2020
Sample Name:	Leachate Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	pH	3.28	-----
02	Electric Conductance	61423.87	µS/cm
03	Chemical Oxygen Demand	7268.44	mg/lit
04	Biological Oxygen Demand	2894.31	mg/lit
05	Chlorides as Cl ⁻	10653.50	mg/kg

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.

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DATE: DECEMBER 15, 2020

GROUND WATER SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/524
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Sampling Date:	08.12.2020
Analysis Date:	09.12.2020
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	7.71	6.5 -8.5	--
04	Alkalinity as CaCO ₃	25.27	<200.00	mg/lit
05	Chemical Oxygen Demand (COD)	9.10	Not Specified	mg/lit
06	Biochemical Oxygen Demand (BOD)	3.78	Not Specified	mg/lit
07	Total Dissolved Solids (TDS)	279.85	<500.00	mg/lit
08	Chlorides as Cl ⁻	35.67	<250.00	mg/lit
09	Total Hardness as CaCO ₃	102.18	<200.00	mg/lit
10	Calcium as Ca	32.49	<075.00	mg/lit
11	Magnesium as Mg	5.11	<030.00	mg/lit
12	Sodium as Na	0.25	Not Specified	mg/lit
13	Potassium as K	0.48	Not Specified	mg/lit
14	Turbidity	0.20	<001.00	NTU
15	Electric Conductance	417.68	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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DATE: DECEMBER 15, 2020

SURFACE WATER SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/525
Client:	M/s Natural Sugar & Allied Ind. Ltd.,
Site:	Sainagar, Ranjani, Tah.Kallam, Dist.Osmanabad (MS)
Sampling Date:	08.12.2020
Analysis Date:	09.12.2020
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	7.59	6.5 -8.5	--
04	Alkalinity as CaCO ₃	8.12	<200.00	mg/lit
05	Chemical Oxygen Demand (COD)	5.39	Not Specified	mg/lit
06	Biochemical Oxygen Demand (BOD)	2.20	Not Specified	mg/lit
07	Total Dissolved Solids (TDS)	178.41	<500.00	mg/lit
08	Chlorides as Cl ⁻	14.63	<250.00	mg/lit
09	Total Hardness as CaCO ₃	47.24	<200.00	mg/lit
10	Calcium as Ca	15.52	<075.00	mg/lit
11	Magnesium as Mg	2.06	<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	266.28	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.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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