

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
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Driven by Quality. Inspired by Science.

ISSUED TO:

M/s. Re-Sustainability Ltd
(A Unit – Uttar Pradesh Waste Management Project)
Plot No: 672, on NH-19, Sikandra Road,
Village Kumbi, Tesil: Akbarpur,
Dist: Kanpur, Dehat-209101, Uttar Pradesh.

Report Number : **VLL/VLS/23/11159/01**
Issue Date : **2023.10.06**
P.O Number : **0400102753**
P.O Date : **2023.08.23**

Sample Particulars: AMBIENT AIR QUALITY MONITORING

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Sample Registration : 2023.09.28 Sampling Date: 2023.09.25
Analysis starting date: 2023.09.28 Analysis Completion date: 2023.10.06

Samples collected at: **AAQ-1: Administrative Building, AAQ-2: Near Gate No:2; AAQ-3: Top of Landfill Area.**
Tests required: Sulphur Dioxide SO₂, Nitrogen Dioxide NO₂, Particulate Matter PM10, Particulate Matter PM2.5, Ammonia NH₃, Benzene C₆H₆, Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel, Lead, Ozone & Carbon Monoxide;
SAMPLES COLLECTED BY VIMTA LABS LTD LAB REF.: EC

TEST RESULTS

Parameters	Test Method	Units	NAAQ LIMITS	AAQ1	AAQ2	AAQ3
				2023.09.25	2023.09.25	2023.09.25
Particulate Matter PM10	Gravimetric Method	µg/m ³	100	43.3	40.4	43.2
Particulate Matter PM2.5	Gravimetric Method	µg/m ³	60	23.2	25.9	25.4
Ammonia NH ₃	Indophenol Blue Method	µg/m ³	400	39.5	34.4	33.1
Sulphur Dioxide SO ₂	Improved West and Gaeke Method	µg/m ³	80	27.8	31.1	35.1
Nitrogen Dioxide NO ₂	Modified Jacob & Hochheiser Method	µg/m ³	80	33.6	37.7	37.3
Benzene C ₆ H ₆	Solvent Extraction followed by GC analysis	µg/m ³	05	0.54	0.48	0.42
Benzo(a) Pyrene in particulate phase	Solvent Extraction followed by GC analysis	ng/m ³	01	0.03	0.29	0.21
Arsenic as As	AAS/ICP Method	ng/m ³	06	<1.0	<1.0	<1.0
Nickel as Ni	AAS/ICP Method	ng/m ³	20	5.2	3.4	5.4
Lead as Pb	AAS/ICP Method	µg/m ³	1.0	0.021	0.022	0.31

- PM2.5, PM10, SO₂, NO₂, NH₃, C₆H₆, BaP & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs. Basis
- Below Detectable Limit for As, Ni, Pb 0.1 µg/m³
- Below Detectable Limit for NH₃ 20 µg/m³
- Below Detectable Limit for Benzene 0.01 µg/m³
- Below Detectable Limit for BaP 0.01 ng/m³

Dr. Subba Reddy Mallampati
Manager - Environment

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Sample Registration 2023.09.28 Sampling Date: 2023.09.25
Analysis starting date: 2023.09.28 Analysis Completion date: 2023.10.06
Samples collected at: AAQ-1: Administrative Building, AAQ-2: Near Stabilization Pit Area; AAQ-3: Top of Landfill Area

Tests required: Sulphur Dioxide SO₂, Nitrogen Dioxide NO₂, Particulate Matter PM10, Particulate Matter PM2.5, Ammonia NH₃, Benzene C₆H₆, Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel, Lead, Ozone & Carbon Monoxide;
SAMPLES COLLECTED BY VIMTA LABS LTD LAB REF.: EC

TEST RESULTS

Sampling Locations	Date	Units	Ozone O ₃			Carbon Monoxide CO		
			I	II	III	I	II	III
AAQ-1	2023.09.25	µg/m ³	6.0	5.9	5.3	347	353	352
AAQ-2	2023.09.25	µg/m ³	6.2	5.4	6.6	349	346	351
AAQ-3	2023.09.25	µg/m ³	6.1	5.0	6.9	354	351	341
Test of method			UV photometric method			NDIR spectroscopy method		
Limits as per NAAQS, µg/m ³			100			2000		

- Ozone and CO is monitored on 8 hours basis
- Below Detectable Limit for Ozone - 2.0 µg/m³
- Below Detectable Limit for CO - 50 µg/m³

Dr. Subba Reddy Mallampati
Manager- Environment