



TAMILNADU POLLUTION CONTROL BOARD

Advanced Environmental Laboratory,
Madurai 625 008

From

Tmt. N.Vadivu, M.Sc., B.Ed.,
Chief Scientific Officer,
Advanced Environmental Laboratory,
Tamilnadu Pollution Control Board,
Kappalur,
Madurai – 625 008.

To

M/s. Resustainability Healthcare Solutions Ltd.,
S.F.No. 135,136,137,
Undurmikidakulam Village,
Tiruchuli Taluk,
Virudhunagar District.

Lr. No.F.16/AEL/TNPCB/AAQS/SM/NLS/2022-2023, Dated: 30.03.2023

Sir,

Sub : Furnishing of Report of Analysis of Ambient Air Quality Survey, Stack
Monitoring and Noise Level Survey – Regarding.

- Ref : 1) T.O.Lr.No.TNPCB/CSO/AEL - MDU/AAQS/F.No.17- Mdu – Air –
2022- 23 Dt: 16.03.2023
2) Cash Receipt No. 163246, Dt. 13.10.2022 for Rs.56,650 /-
3) Cash Receipt No. 163627, Dt. 24.03.2023 for Rs.23,400 /-

I am to furnish the report of analysis of Ambient Air Quality Survey, Stack
Monitoring and Ambient Noise Level Survey conducted in the vicinity of your industry
M/s. Resustainability Healthcare Solutions Limited, Virudhunagar District on 17.03.2023
with invoice for **Rs.80,050/- (Rupees Eighty Thousand and Fifty Only)** towards the above
survey/analysis charges and the same has been adjusted with the advance fees received vide
reference (2) & (3) cited above.

Kindly acknowledge the receipt of the report without fail

Encl : As above.

N.V. Vadivu
30/3/23
Chief Scientific Officer,
AEL, TNPCB, Madurai.

Copy submitted to :

The Deputy Director (Labs), TNPC Board, Chennai, for favour of information please.

The Joint Chief Environmental Engineer (M), TNPCB, Tirunelveli for favour of information
please.

The District Environmental Engineer, TNPC Board, Virudhunagar.

Copy to : File.



TAMILNADU POLLUTION CONTROL BOARD,
ADVANCED ENVIRONMENTAL LABORATORY,
MADURAI – 625 008.

Report No.68/ MDU/AAQS/2022- 23 Dt. 30.03.2023

1. Name of the Industry : M/s. Resustainability Healthcare Solutions Limited,
2. Address of the Industry : S.F.No. 135,136,137,
Undurmikidakulam Village,
Tiruchuli Taluk,
Virudhunagar District.
3. Date of survey : 17.03.2023
4. Duration of survey : 8 Hours
5. Category : Red / Small
6. Matrix : Ambient Air
7. Date of Analysis : 20.03.2023

Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30	35		50	60
Weather Condition	Clearsky		Rainfall (mm)	NIL	
Predominant Wind Direction	NE to SW		Mean Wind Speed (Km/hr)	15.8	

Ambient Air Quality Survey Results

Sl. No	Location	Direction *	Distance * (m)	Height from GL (m)	Pollutants Concentration (µg/m ³)				
					PM ₁₀	SO ₂	NO ₂	Cl ₂	Acid Mist
1.	On top of the scaffolding near vacant land (Open Field)	NE	210	3	58	16	24	<0.1	NIL
2.	On top of the scaffolding near Open Field	E	200	3	53	20	27	<0.1	NIL
3.	On top of the scaffolding near Open Field (Near landfill backside)	SE	210	3	50	24	30	<0.1	NIL
4.	On top of the scaffolding near Open Field	SW	215	3	87	27	44	<0.1	NIL
5.	On top of the scaffolding near Open Field	W	210	3	84	25	40	<0.1	NIL
6.	On top of the scaffolding near Open Field (NW Corner)	NW	220	3	80	18	33	<0.1	NIL

Note:

* With respect to major emission sources

All the values are restricted to the sampling period of 08.00 Hrs.

Test method:

Respirable Particulate Matter (PM₁₀) : IS 5182: (Part 23) – 2006
: IS 5182: (Part 2) – 2001
Sulphur Dioxide (as SO₂) : IS 5182: (Part 6) – 2006
Oxides of Nitrogen (as NO_x)

Environmental Scientist

Chief Scientific Officer,
AEL, TNPCB, Madurai



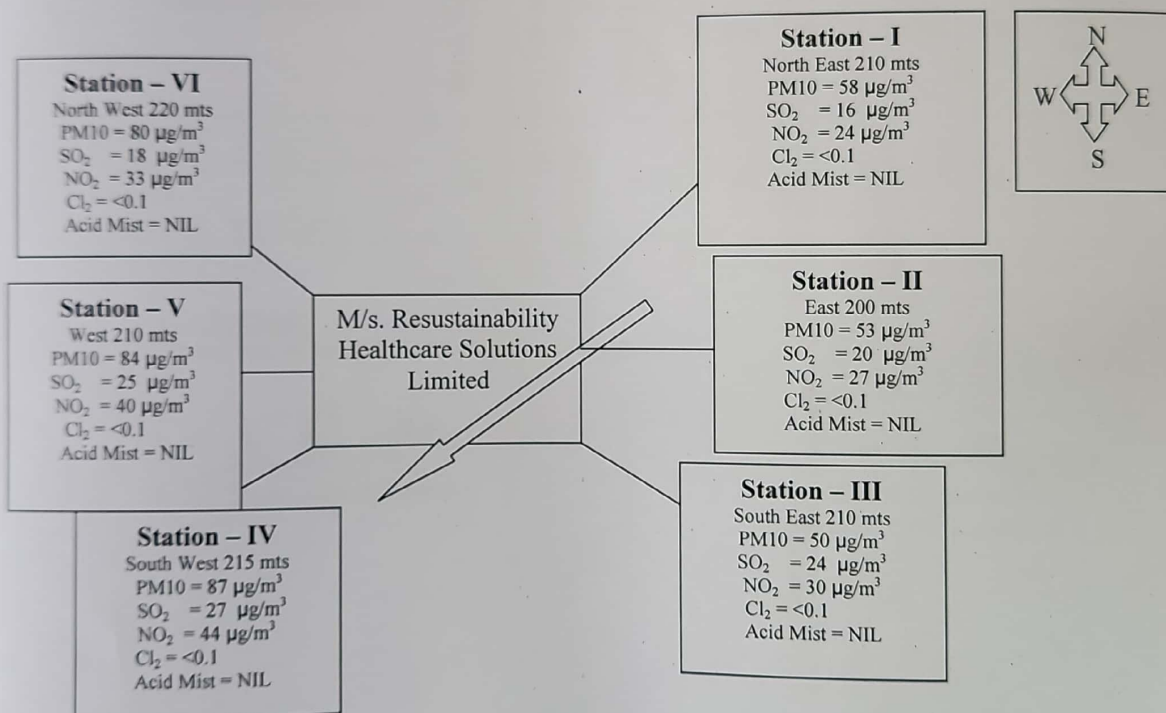


TAMILNADU POLLUTION CONTROL BOARD
Advanced Environmental Laboratory, Madurai 625 008.

AMBIENT AIR QUALITY SURVEY
Schematic Diagram Showing Location of Sampling

Report No.68 /AEL - MDU/AAQS/2022 - 23 Dt: 30.03.2023

1.Name and Address of the Industry	:	M/s. Resustainability Healthcare Solutions Ltd., S.F.No. 135,136,137, Undurmikidakulam Village, Tiruchuli Taluk, Virudhunagar District.
2. Date of survey	:	17.03.2023



All the values are in $\mu\text{g}/\text{m}^3$ and restricted to the sampling period of 08.00 Hrs

METEROLOGICAL CONDITION:-

Predominant Wind Direction : NE to SW
Weather Condition : Clearsky
Rainfall : NIL

Environmental Scientist

Chief Scientific Officer,
AEL, TNPCB, Madurai





TAMILNADU POLLUTION CONTROL BOARD,
ADVANCED ENVIRONMENTAL LABORATORY,
MADURAI - 625 008.

TEST REPORT

Report No.68/AEL - MDU/SM/2022 - 23 Dt. 30.03.2023

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2. Address of the Industry : S.F.No. 135,136,137,
Undurmikidakulam Village,
Tiruchuli Taluk,
Virudhunagar District.
3. Date of survey : 17.03.2023
4. Matrix : Stack Emission
5. Date of Analysis : 20.03.2023

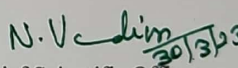
Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp. °C	Velocity in (m/sec)	Discharge rate in (Nm ³ /Hr)	Pollutants Concentration (mg/Nm ³)				
					PM	SO ₂	NOx	Cl ₂	Acid Mist
1.	Incinerator Make - Divine Engineering Works Capacity - 150 Kgr/hr	128	12.8	26881	48	52	76	<0.1	0.2

Test Method:

Particulate Matter - IS 11255 (Part 1) - 1985, (RA 2003)


Environmental Scientist


Chief Scientific Officer
AEL, TNPCB, Madurai





TAMILNADU POLLUTION CONTROL BOARD
Advanced Environmental Laboratory, Madurai – 625 008.

STACK DETAILS
Report No. 68 /AEL - MDU/SM/2022 - 23 Dt: 30.03.2023

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S.F.No. 135,136,137,
Undurmikidakulam Village,
Tiruchuli Taluk,
Virudhunagar District.
2. Date of survey : 17.03.2023

Sl. No.	Particulars	I
1	Stack attached to	Incinerator
2	Details of process Stack	Bio- Medical Waste Incineration
3	Height from G Level in (m)	30
4	Diameter in (m) Circular duct	1.00
5	Port hole height from Ground Level or bends or ducts in (m)	14.5 M
6	Fuel Used	Diesel
7	Fuel Consumption rate per day (mention units) during survey	160 Lt/days
9	APC measures provided	Quencher, Venturi, Wet Scrubber, Moisture Separator
10	APC Functional status	Functional
11	Ambient temp in °K	308
12	Temp of flue gas in °K	401
13	Velocity of flue gas in m/sec	12.8
14	Volume of flue gas sampled in m ³	1.0
15	Gaseous Discharge rate per Hr.in Nm ³ /Hr	26881

[Signature]
Environmental Scientist

N.V. di'm
Chief Scientific Officer
AEL, TNPCB, Madurai





TAMILNADU POLLUTION CONTROL BOARD,
ADVANCED ENVIRONMENTAL LABORATORY,
MADURAI - 625 008.

Report No. 68 /AEL - MDU/NLS/2022 - 23 Dt. 30.03.2023

1.	Name of the Industry	:	M/s. Resustainability Healthcare Solutions Ltd.,
2.	Address of the Industry	:	S.F.No. 135,136,137, Undurmikidakulam Village, Tiruchuli Taluk, Virudhunagar District.
3.	Date of survey	:	17.03.2023

Category	Red/Small
Type of Survey	Ambient / Source
Time of Survey	Day
Meteorological Condition	Calm

Logging Parameters

Instrument Used	CESVA SC- 310 Serial No. T - 243081
Ambient Temperature	35 °C
Ambient Relative Humidity	50%
Measuring Range	40 -120 dB(A)
Weighing	"A"
Peak Weighing	"C"
Time Weighing	--
Sound Incidence	Random
Time in Hrs	15.30 to 16.30 hrs

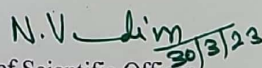
Report of Noise Level Monitoring

Sl. No.	Location	Distance (m)	Direction	Sound Level-dB (A)		
				Leq	L _{Max}	L _{Min}
I.	BOUNDARY LINE:					
1.	Near NE Corner	210	NE	55.1	59.3	51.6
2.	Near E Corner	200	E	54.3	58.2	50.7
3.	Near SE Corner	210	SE	58.6	61.3	53.8
4.	Near SW Corner	215	SW	69.3	73.2	64.5
5.	Near W Corner	210	W	70.2	75.1	63.2
6.	Near NW Corner	220	NW	58.3	65.6	54.1
1.	Infront of Incinerator	-	-	78.6	84.3	70.1

Note: *Leq Value is the average energy for the measured period.

Test Method: Sound Level (Leq) IS: 9989 - 1981 (RA 2001)


Environmental Scientist


Chief Scientific Officer,
AEL, TNPCB, Madurai



TAMIL NADU POLLUTION CONTROL BOARD

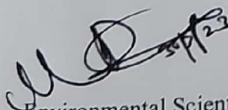
Advanced Environmental Laboratory, Madurai – 625 008.

GENERAL PARTICULARS

Report No. 68 /AEL - MDU/AAQS/SM/NLS/2022 – 23 Dt: 30.03.2023

1.	Name of the Industry	:	M/s. Resustainability Healthcare Solutions Ltd.,
2.	Address of the Industry	:	S.F.No. 135,136,137, Undurmikidakulam Village, Tiruchuli Taluk, Virudhunagar District.
3.	Date of survey	:	17.03.2023

Sl. No.	Head of Particulars	Particulars
1.	Process Description	Bio Medical Waste Treatment
2.	Emission Source	Stack attached with incinerator
3.	Fugitive Emission Sources	Vehicular Movement
4.	Bio Medical Waste collected on the day of survey	Incineration - 900 Kg Autoclave - 350 Kg
5.	Production capacity as Per Air Consent Order No.& Date	Consent No. 2207131266447, Dated: 08.05.2019 Validity upto 31 st March 2023
6.	Total Quantity of BMW processed and Incinerated	1075 Kg
7.	Details of APC	Quencher, Venturi, Wet Scrubber, Moisture Separator
8.	Functional status of APC	Functional
9.	Compliance with Consent Conditions	Complied
10.	Field Observations	Observed regular activities in routine procedure


Environmental Scientist


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INFERENCE REPORT ON AAQS/SM

Report No. 68/AEL - MDU/AAQS/SM/NLS/2022 - 23 Dt: 30.03.2023

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S.F.No. 135,136,137,
Undurmikidakulam Village,
Tiruchuli Taluk,
Virudhunagar District.
2. Pollution category : Red/Small
3. Date of AAQ survey : 17.03.2023
4. Meteorological Conditions:
 - (i) Predominant Wind Direction : NE to SW
 - (ii) Weather condition : Clearsky
 - (iii) Rainfall(mm) : Nil
 - (iv) Temperature (°C) : Min: 30 Max : 35
 - (v) Relative Humidity (%) : Min: 50 Max : 60

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY:-

1. Total No.of AAQ stations monitored : 6 Nos.
2. No.of AAQ stations in which Pollutants
Level exceeded the Boards Standard : NIL

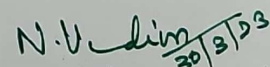
Maximum and minimum value of Pollutants Level observed:

Sl. No.	Pollutant	Values in microgram/m ³		Board's Standard (as per consent order) (µg/m ³)
		Minimum	Maximum	
1.	Respirable Suspended Particulate Matter:PM ₁₀	50	87	100
2.	Gaseous Pollutants:-			
	(i) SO ₂	16	27	80
	(ii) NO ₂	24	44	80

II. STACK MONITORING:-

1. Total No.of Stacks Monitored : 1 No
2. No.of stacks in which Pollutants
Level exceeded the Board's Standard : Nil


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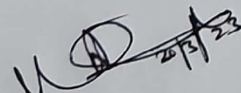
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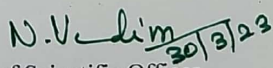
Invoice No.	68/AIR/2022- 23
Date	30.03.2023

To
M/s. Resustainability Healthcare Solutions Ltd.,
S.F.No. 135,136,137,
Undurmikidakulam Village,
Tiruchuli Taluk,
Virudhunagar District.

Ref: 1) T.O.Lr.No.TNPCB/CSO/AEL - MDU/AAQS/F.No.17- Mdu – Air –
2022- 23 Dt: 16.03.2023
2) Cash Receipt No. 163246, Dt. 13.10.2022 for Rs.56,650 /-
3) Cash Receipt No. 163627, Dt. 24.03.2023 for Rs.23,400 /-

Sl. No	Description	No. of Station	Rate per Station Rs	Amount Rs
I	SAMPLING CHARGES:			
	AAQS	6	3500	21,000
	Stack Monitoring	1	13,100	13,100
	Noise Level	5	-	7,000
II	ANALYSIS CHARGES:			
	SPM	7	1050	7,350
	SO ₂	7	1050	7,350
	NO _x	7	1050	7,350
	Acid Mist	7	1050	7,350
	Cl ₂	7	1050	7,350
	Transportation Charge			2,200
	Total			80,050
	Less: Advance Vide Cr.No. 163246 , Dt: 13.10.2022 , Cr.No. 163627, Dt: 24.03.2023			Rs.80,050
	Balance to pay			NIL


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AEL, TNPCB, Madurai