



TRUALT BIOENERGY LIMITED

UNIT-3

Factory : Kallapur (S.K) Kanapur (S.K.) Village-587155 Taluk : Badami
Dist : Bagalkote, Karnataka(India) Email : mrn.dist@niranigroups.com



080-23256500-50



trualt@niranigroups.com



www.niranigroups.com

GSTIN - 29AAICT5347A1Z1

CIN - U15400KA2021PLC14597

Ref: TBL-III/KSPCB-ES/2024-25/

Date: 27.09.2024.

To,
The Environmental Officer,
Regional Bagalkot,
Karnataka State Pollution Control Board,
Sector No. -07, By-Pass Road,
Navanagar- BAGALKOT-587102

Sub: Submission of Environmental statement for the year 2023-24 --- reg.

Dear Sir,

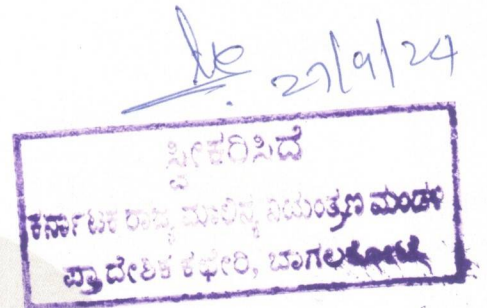
This has refer to above cited subject, we are herewith submitting the Environmental statement (Form -V) for the period of April 2023 to March 2024 & for the financial year ending with March 2024.

Kindly acknowledge the receipt of the same.

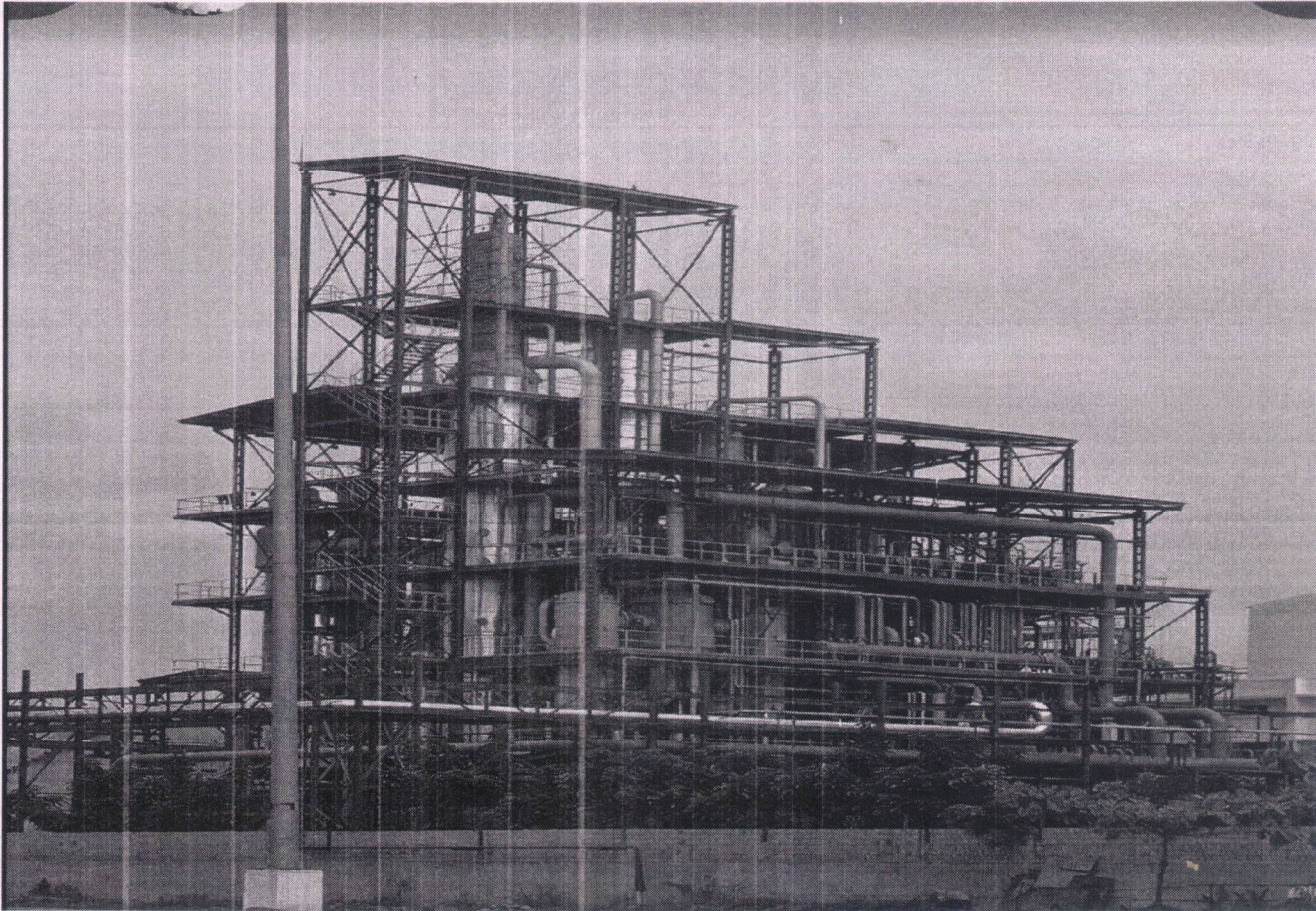
Thanking you,

Yours faithfully,
For TruAlt Bioenergy Ltd. Unit – III.

Authorised Signatory,



A UNIT OF **THE MRN GROUP**



ENVIRONMENTAL AUDIT STATEMENT

SUBMITTED

TO

**KARNATAKA STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE, BAGALKOT.**

BY

TruAlt Bioenergy LIMITED Unit - III

**KALLAPUR SK, TALUKA -BADAMI, DIST-BAGALKOT
KARNATAKA.**

ENVIRONMENTAL AUDITING

Environmental auditing is a management tool to objectively and systematically evaluate environment management systems with the following objectives:

- i) Waste prevention and reduction.
- ii) Assessing compliance with regulatory requirements.
- iii) Placing environmental information in the public domain.

Compliance with the regulatory norms, through adoption of clean technologies and improvement in management practices for prevention and control of pollution is not only mandatory but also has got wide acceptance among the industrial community. Charter on Corporate Responsibility for Environmental Protection (CREP) also calls for commitment and voluntary initiatives of industry for responsible care of the environment, which will help in building a partnership for pollution control.

In view of the fact that the enforcement agencies are many times not equipped fully in terms of man power & other infrastructure to identify violation of Pollution Control norms by Industries and since there is every likelihood that the enforcement agencies may monitor only limited number of industries spread over in different areas in the entire state, the Government intends to introduce a new scheme by the name "Environmental Auditing Scheme". In this scheme, technically qualified professionals (Auditors) become link between Industries, enforcement agencies and Association of Industries, with added vital elements of Accountability and Transparency.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

OBJECTIVES:

The environmental audit helps in pollution control, improved safety and health & conservation of natural resources and hence its overall objective can be stated as achieving of sustainable development.

The objectives of environmental audit in an industry are:

1. To determine the mass balance of various materials used and the performance of various process equipment so as to identify the usage of materials in excess than required and to review the conservation efficiencies of process equipment and accordingly fix up norms for equipment / operations performance and minimization of wastes.
2. To identify the areas of water usage, waste water generation and determine the characteristics of wastewater.
3. To determine the emissions, their sources, quantities and characteristics.
4. To determine the solid waste and hazardous waste generated, their sources, their quantities and characteristics.
5. To identify the possibilities of waste minimization and recovery and recycling of waste.
6. To determine the performances of the existing waste water treatment / control.
7. To consider system to modify or install additional control equipment accordingly.
8. To adopt 4R concept: Reduce-Reuse-Recycle-Recover.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

ABOUT THE INDUSTRY:

TruAlt Bioenergy LIMITED Unit- III located at Kallapur SK village, Badami -Taluka, Bagalkot - District— 587155. The distillery having capacity is 8 MW Captive Power Plant & 200 KLPD with incineration Boiler of 52 TPH steam flow capacity and the same were commissioned in the September 2021.

Sl. No.	Name of the Unit	Capacity
1	Captive Power Plant	08 MW
2	Distillery	200 KLPD

This unit is engaged in the production of Sugar as per the customer needs. This unit located in the area comprising of agricultural fields. The area has good facilities for setting up and running industries. General topography of the region is a flat and undulating terrain. The area is dry with black cotton soil and also some area sandy loam and the ambient temperature varies between 28 - 43 °C.

Sl. No.	Description	Area
1	Total Area of the Factory	12.26 Acres
2	Built-up Area including Roads & cane yard	07.94 Acres
3	Existing green belt	4.32 Acres

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

FORM - V (See Rule - 14)

Environmental Statement for the financial year ending 31.03.2024

(From April -2023 to March -2024)

PART- A

General Information:

1. Name of the Industry : **TruAlt Bioenergy Ltd Unit-III.,**
Kallapur SK, Taluk - Badami,
Dist – Bagalkot, PIN: 587155, Karnataka.
2. Applicant Name: **PRAKASH M. SUTAR**
Asst. General Manager–Environment
3. E-mail Address: mrn.environment@niranigroups.com
4. Products Manufactured: RS/ENA/IS/Ethanol
5. Year of Commissioning: Distillery – September 2021.
6. Operation During the period of Audit:
 - a. Working days per year: Distillery – 234 Days
 - b. Working days per week : 7 Days
 - c. No. of shifts : 3 Shifts
7. No. of Employees : During Season – 100
During Off Season – 40

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

PART- B

1. FRESH WATER CONSUMPTION (2023 - 2024 SEASON)

Fresh Water Consumption in KL/Year

a. Process	:	399000 KL
b. Industrial Cooling	:	13300 KL
c. Domestic Purpose	:	9310 KL

Sl. No.	Operation/Particulars	Current Financial Year 2023- 24 (KL/Year)
1	Domestic	9310
2	Process	399000
3	Cooling	13300
4	Others (Fire Fighting)	2660
Total		424270

Sl. No.	Description	Recycled to	2023-24 (KL/Year)
1	Boiler Blow Down	Co-gen Cooling Tower	4570
2	Co-gen Cooling Blow Down	Sugar Service Water Tank	3431
3	Hot Water Recycling	Sugar/Co-gen Cooling Tower	71603
4	Process Condensate & Spent Lees	Distillery Cooling Tower make-up & for Fermentation Process	179550
5	Cooling Tower Purge	Distillery Cooling Tower make-up	59850
Total			319004

2. Recycle and Reuse:

a. Waste prevention and reductions:

The industry has adopted water conservation measures for the optimal use of water. The industry has adopted recycling of Boiler blow down and cooling tower blow down since commencement of the distillery plant. The total recycled water quantity was **319004** KLD in 2023-24 season.

b. Compliance with regulatory requirements:

During 2023-24 season, the industry has operated the Distillery for 234 days. The fresh water consumption was 1500 KL/Day during 2023-24 season. However, the water consumption is well within the consent limit.

c. Waste prevention and reduction:

The sewage water from toilets & urinals is discharged in to the septic tank followed by soak pit. The boiler blow down is reused to the co-gen cooling tower after treatment. The cooling tower blow down water is reused to the make-up water tank after treatment. The regeneration and backwash water of PCTP is used for green belt development. The process condensate & spent lees is recycled to fermentation process and also for cooling tower as make- up water. Spent wash used in boiler as fuel.

d. Compliance with regulatory requirements:

The treated water from PCTP is reused and recycled for fermentation process & for cooling tower make up along with manufacturing process.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

3. DETAILS OF RAW MATERIAL CONSUMPTION AND PRODUCTS:

Sl. No.	NAME OF THE MATERIAL	UTILIZATION	Consumption of Raw Materials in the current FY 2023-24
1.	Molasses	Distillery	123535.610 MT
2.	Cane Syrup	Distillery	16641.00 MT
3.	Sodium Meta Bi Sulphite	Distillery	3467.50 Kgs.
4.	Yeast	Distillery	18875.00 Kgs.
5.	CWR Plus	Distillery	1264.00 Kgs.
6.	CWR Pro	Distillery	772.00 Kgs.
7.	Neutrizime	Distillery	3541.00 Kgs.
8.	DAP	Distillery	47745.00 Kgs.
9.	TRO	Distillery	12269.00 Kgs.
10.	Zinc Sulphate	Distillery	5589.00 Kgs.
11.	MgSO4	Distillery	2625.00 Kgs.
12.	Biocide	Distillery	917.00 Kgs.
13.	Caustic Soda Flakes	Distillery	137350.00 Kgs.
14.	Bleaching Powder	Distillery	450.00 Kgs.

PRODUCT DETAILS		
Sl. No.	Particulars	Quantity
1	Ethanol from Molasses	19019286 Lit.
2	Ethanol from Cane Syrup	3574005 Lit.
3	ENA	15200000 Lit.
4	RS	1202114 Lit.
5	IS	2656577 Lit.

1. Waste prevention and reductions:

The industry has adopted conservation measures for the optimal use of resources.

2. Compliance with regulatory requirements.

The RS/ENA/Ethanol production capacity was at an average 159.8 KLD. This complies with the consent of 200 KLPD of Distillery.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

PART – C

POLLUTANTS DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged in mass/day	Concentration of Pollutants in discharges (mass/volume)	Percentage of variation to prescribed standards with reasons
1. Waste Water:	Attached as Annexure -I		All the parameters are within the limits as specified by KSPCB.
2. Air: a. Ambient Air Quality b. Stack Monitoring	Attached as Annexure -II		All the Ambient & Stack parameters are within the limits as specified by KSPCB.
3. Noise:	Attached as Annexure-III		Noise level is within the limit as specified by KSPCB.

i) Waste prevention and reduction:

The industry has adopted Air Pollution controlling measures for the minimization of air pollution from the incineration Boiler. An Electro Static Precipitator (ESP) is equipped to control the air pollution. The Ambient Air Quality and Stack Emissions are well within the limits prescribed by KSPCB.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

ii) Compliance with regulatory requirements:

Both chimney of height 85 meter along with ESP along with acoustic control measures have been adopted for incineration boiler 52 TPH. The stack monitoring reports are well within the standards as laid down by the Board.

PART-D

HAZARDOUS WASTES

(As specified under the Hazardous Waste / Management and Handling Rules, 2008)

Hazardous / Non-Hazardous Wastes	Total Quantity
	Current Financial Year 2023-24
a. From Process 1. Spent Oil 2. Cotton Waste 3. Waste Containers	24 Lit. 13 Kg. 14Kg.
b. From Pollution Control Facilities Boiler Ash (Non-Hazardous Waste)	4987.040 MT

i) Waste prevention and reduction:

The industry has adopted safety measures for handling the hazardous wastes. Wastes are stored in MS containers and stored in the separate yard. The collected waste oil is reused as lubricant in track Chain carriers / bagasse conveyors / elevators etc inside the factory premises.

ii) Compliance with regulatory requirements:

The waste oil from the DG is not exceeding the consent limits and also waste oil residue. The industry is complying with the hazardous waste (Management and handling) Rules 2008 as amended in 2010.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

PART-E SOLID WASTES

Particulars	Total Quantity in MT
	Current Financial Year 2023-24
a) From Process	
1. Spent Wash	89197 MT
b) From Pollution Control Facilities	
1. Boiler Ash	4987.040 MT
c) Quantity Recycled or Reutilize	1. Spent wash is used as fuel in incineration Boiler. 2. The Boiler ash is sold to brick manufacturers.

I. Waste prevention and reduction.

The industry has adopted solid waste management practices for proper tracking and managing the wastes in order to recover the energy. The Spent wash is used as a fuel in boiler and ash is sold to brick manufacturer & for manure.

II. Compliance with regulatory requirements.

The industry is managing the solid waste like ash from boilers in a manner such that it is not causing any pollution.

PART- F

Please specify characterization (in terms of composition and quantum) of hazardous as well as solid waste indicates disposal practice adopted for both these categories of wastes:

Nature of Wastes	Quantity/Year	Mode of Disposal
a)Hazardous Wastes		
1. Spent Oil	24 Lit.	Collected in MS/HDPE barrels and used as lubricant in the track chain conveyors/ bagasse conveyors/ elevators, etc.. Inside the factory premises.
2. Cotton Waste	13 Kg	Used as fuel in Boiler
3. Waste Containers	14 Kg	Cleaned & reused

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

B. Solid Wastes		
1. Boiler Ash	4987.040 MT	Sold to brick manufacturers
2. Spent wash	891897 KL	Used as fuel in the Boiler.

PART- G

Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production:

1. For Chemicals in Effluent Treatment Plant.
2. The treated effluent is used to develop green belt and planted trees and also for gardening in the factory premises.

PART- H

Additional investment proposal for environmental protection including abatement of pollution:

1. Industry has developed the green belt area of about 4.38 acre.
2. Good housekeeping is being maintained in the factory premises.
3. The industry has implemented a recycling treatment unit to recycle the vapor condensate to process and cooling tower make-up purposes.
4. Water spraying on the main roads to avoid the dust pollution occurring due to cane vehicles during the season.
5. Online Air monitoring unit and online effluent treated water monitoring equipment are provided for close monitoring.

PART - I

Any other particulars far improving the quality of the environment:

The industrial management adopted pollution control measures for protecting surrounding environment. The concentration of pollutants is well within the limits as prescribed by the KSPCB.

- a. An Environmental Cell / Committee have been formed.
- b. The factory has a full-fledged PCTP/CPU to treat condensate & lees.
- c. Industry having well equipped Laboratory for carrying out water and wastewater Analysis.
- d. Environmental protection and pollution control has been the priority for the industry.

ENVIRONMENTAL AUDIT STATEMENT FOR THE FINANCIAL YEAR 2022-23

- e. Reuse of backwash water for firefighting and as well as in the sugar unit to reduce the fresh water consumption.
- f. Reuse of process condensate & lees water after treatment as for process along with cooling tower makes up to reduce the fresh water consumption.
- g. Spraying of water on bagasse to arrest fugitive emissions.

For TruAlt Bioenergy Limited Unit -III

Authorized Signatory,



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 & Accredited by NABL

(Certified by ISO 14001:2015, ISO 45001:2018, ISO 9001:2015, ISO 22000:2018)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : msvalbellary2018@gmail.com, lab-sv@gmail.com Web ID : www.msvalbellary.com



TC- 4071

MSVAL/AA/RF/01/00

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Name of the location : Near Distillery Gate
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 19.02.2024
7. Date of Sample Receipt : 20.02.2024
8. Sample Code : 6937
9. Analysis Starting Date : 20.02.2024
10. Analysis Completion Date : 23.02.2024
11. Report Issue Date : 23.02.2024
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Ambient Air

ULR No: TC40712400004487F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM ₁₀	IS 5182(Part-23)	µg / m ³	82.69	100
2	Particulate Matter PM _{2.5}	IS 5182(Part-24)	µg / m ³	47.20	60
3	Sulphur Dioxide as SO _x	IS 5182(Part-2)	µg / m ³	7.35	80
4	Oxides of Nitrogen as NO _x	IS 5182(Part-6)	µg / m ³	14.01	80
5	Ammonia as NH ₃	IS 5182(Part-25)	µg/m ³	5.60	400

INFERENCE	As per NAAQS Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports.



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 & Accredited by NABL

(Certified by ISO 14001:2015, ISO 45001:2018, ISO 9001:2015, ISO 22000:2018)

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : msvalbellary2018@gmail.com, lab@msv@gmail.com Web ID : www.msvalbellary.com



TC- 4071

MSVAL/AA/RF/01/00

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Name of the location : Near Distillery CPU
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 19.02.2024
7. Date of Sample Receipt : 20.02.2024
8. Sample Code : 6939
9. Analysis Starting Date : 20.02.2024
10. Analysis Completion Date : 23.02.2024
11. Report Issue Date : 23.02.2024
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Ambient Air

ULR No: TC407124000004489F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM ₁₀	IS 5182(Part-23)	µg / m ³	67.90	100
2	Particulate Matter PM _{2.5}	IS 5182(Part-24)	µg / m ³	31.54	60
3	Sulphur Dioxide as SO _x	IS 5182(Part-2)	µg / m ³	5.99	80
4	Oxides of Nitrogen as NO _x	IS 5182(Part-6)	µg / m ³	11.85	80
5	Ammonia as NH ₃	IS 5182(Part-25)	µg/m ³	4.16	400

INFERENCE

As per NAAQS Standards,

Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports.



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 & Accredited by NABL

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 9945456764, 08392-255169

Email : msvalbellary2018@gmail.com, lab@msv@gmail.com Web ID : www.msvalbellary.com



TC- 4071

MSVAL/AA/RF/01/00

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Name of the location : Near Distillation
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 19.02.2024
7. Date of Sample Receipt : 20.02.2024
8. Sample Code : 3938
9. Analysis Starting Date : 20.02.2024
10. Analysis Completion Date : 23.02.2024
11. Report Issue Date : 23.02.2024
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Ambient Air

ULR No: TC40712400004488F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM ₁₀	IS 5182(Part-23)	µg / m ³	58.92	100
2	Particulate Matter PM _{2.5}	IS 5182(Part-24)	µg / m ³	17.14	60
3	Sulphur Dioxide as SO _x	IS 5182(Part-2)	µg / m ³	4.89	80
4	Oxides of Nitrogen as NO _x	IS 5182(Part-6)	µg / m ³	11.30	80
5	Ammonia as NH ₃	IS 5182(Part-25)	µg/m ³	3.52	400

INFERENCE

As per NAAQS Standards,

Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports.



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 & Accredited by NABL

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : msvbellary2018@gmail.com, lab@msv@gmail.com Web ID : www.msvbellary.com



TC- 4071

MSVAL/SE/RF/01/00

ANALYSIS REPORT FOR SOURCE EMISSION

1. Name and Address of the Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Stack ID : 52 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Monitoring : 19.02.2024
5. Date of Sample Receipt : 20.02.2024
6. Sample Code : 3940
7. Analysis Starting Date : 20.02.2024
8. Analysis Completion Date : 23.02.2024
9. Report Issue date : 23.02.2024

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Stack emission

ULR No: TC407124000004490F

GENERAL DETAILS

Instrument Used for Sampling	Sample collected with GTI-121
Fuel Used	Thick Spent Wash+Bagasse
Ambient Temperature (°C)	31
Stack Temperature (°C)	133
Velocity (m/s)	8.95
Height (m)	85
Diameter (m)	2.15
Cross sectional area (m ²)	3.6321
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	87626.0

RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS-11255(Part1)	mg/Nm ³	68.50	150
Sulphur dioxide	IS-11255(Part2)	mg/Nm ³	13.91	100
Nitrogen dioxide	IS-11255(Part7)	mg/Nm ³	28.74	50

INFERENCE

As per KSPCB Standards,

Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports.



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 & Accredited by NABL

(Certified by ISO 14001:2015, ISO 45001:2018, ISO 9001:2015, ISO 22000:2018)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : msvalbellary2018@gmail.com, lab@msv@gmail.com Web ID : www.msvalbellary.com



TC- 4071

AMBIENT NOISE LEVEL MONITORING REPORT

MSVAL/AN/RF/01/00

1. Name of the industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of Sample Collected : Noise meter
4. Date of Monitoring : 19.02.2024
5. Report Issue Date : 23.02.2024
6. Method Adopted : IS 9989: 2020

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Noise ULR NO: TC407124000004491F

S.No	Sample Location	Sample Code	Time Frequency	Results (Day time)			
				Maximum in dB(A) Leq	Minimum in dB(A) Leq	Leq. in dB(A)	Permissible limits in dB(A) Leq
1	Near Distillery Gate	6941	12.10pm to 12.25pm	71.1	67.6	69.0	75 (6.00am to 10.00pm)
2	Near Distillation	6942	12.35pm to 12.50pm	72.3	68.9	70.9	
3	Near Distillery CPU	6943	01.05pm to 01.20pm	68.0	64.3	66.5	

INFERENCE

As per KSPCB Standards,

Report Status :- The Noise level for the all locations is within the limits

Analysed by

[Signature]

Authorized Signatory

[Signature]

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports,



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 & Accredited by NABL
(Certified by ISO 14001:2015, ISO 45001:2018, ISO 9001:2015, ISO 22000:2018)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)
Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : msvalbellary2018@gmail.com, lab@sv@gmail.com Web ID : www.msvalbellary.com



TC- 4071

ANALYSIS REPORT OF WATER QUALITY

MSVAL/W/RF/01/00

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Sample Marked as : CPU Treated Water
3. Name of the location : Distillery
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Water/Good
7. Date of Sample Collection : 19.02.2024
8. Date of sample receipt : 20.02.2024
9. Sample Code : 6945
10. Analysis Starting Date : 20.02.2024
11. Analysis Completion Date : 23.02.2024
12. Report Issue Date : 23.02.2024

Discipline: Chemical Group: Pollution & Environment Sub Group: Waste Water ULR NO: TC407124000004493F

S.no	Parameters	Protocol	Unit	Result	Tolerance Limits As per KSPCB Consent
1	Color	IS : 3025(part-4)	Hazen	<1	All efforts should be made to remove Colour and unpleasant Odour as far as applicable
2	Odor	IS : 3025(part-5)		Agreeable	
3	pH @ 25°C	4500 H+ B APHA 23 rd Edition	-	6.64	5.5 - 8.5
4	Oil & Grease	5520 D APHA 23 rd Edition	mg/L	<1.0	Max 10
5	Bio-chemical Oxygen Demand (3 days at 27°C)	IS-3025(part 44)	mg/L	4.0	Max 100
6	Total Dissolved solids	2540 C APHA 23 rd Edition	mg/L	210.0	Max 2100
7	Total Suspended solids	2540 F APHA 23 rd Edition	mg/L	3.0	Max 100

INFERENCE

As per KSPCB Consent Standards ,

Report Status: - The analyzed values for above measured parameters are within the limits.

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports.



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Email : msvalbellary2018@gmail.com, labmsv@gmail.com Web ID : www.msvalbellary.com



MSVAL/AA/RF/01/00

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Name of the location : Near Distillery Gate
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 27.01.2024
7. Date of Sample Receipt : 28.01.2024
8. Sample Code : 3789
9. Analysis Starting Date : 28.01.2024
10. Analysis Completion Date : 31.01.2024
11. Report Issue Date : 31.01.2024
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407124000002414F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM ₁₀	IS 5182(Part-23)	µg / m ³	78.13	100
2	Particulate Matter PM _{2.5}	IS 5182(Part-24)	µg / m ³	39.01	60
3	Sulphur Dioxide as SO _x	IS 5182(Part-2)	µg / m ³	6.78	80
4	Oxides of Nitrogen as NO _x	IS 5182(Part-6)	µg / m ³	13.50	80
5	Ammonia as NH ₃	IS 5182(Part-25)	µg/m ³	3.96	400

INFERENCE	As per NAAQS Standards, Report Status :- The analyzed values for above measured parameter are within the limits
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Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Gases and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports



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TC- 4071

MSVAL/AA/RF/01/00

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Name of the location : Near Distillery CPU
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 27.01.2024
7. Date of Sample Receipt : 28.01.2024
8. Sample Code : 3790
9. Analysis Starting Date : 28.01.2024
10. Analysis Completion Date : 31.01.2024
11. Report Issue Date : 31.01.2024
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407124000002415F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM ₁₀	IS 5182(Part-23)	µg / m ³	71.44	100
2	Particulate Matter PM _{2.5}	IS 5182(Part-24)	µg / m ³	29.60	60
3	Sulphur Dioxide as SO _x	IS 5182(Part-2)	µg / m ³	5.31	80
4	Oxides of Nitrogen as NO _x	IS 5182(Part-6)	µg / m ³	11.18	80
5	Ammonia as NH ₃	IS 5182(Part-25)	µg/m ³	4.50	400

INFERENCE	As per NAAQS Standards, Report Status :- The analyzed values for above measured parameter are within the limits
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Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

*** End of Report ***



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Gases and minerals Filter papers & Thimble will be discarded in 3 months from the date of issue of test reports.



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MSVAL/AA/RF/01/00

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Name of the location : Near Distillation
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 27.01.2024
7. Date of Sample Receipt : 28.01.2024
8. Sample Code : 3791
9. Analysis Starting Date : 28.01.2024
10. Analysis Completion Date : 31.01.2024
11. Report Issue Date : 31.01.2024
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407124000002416F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM ₁₀	IS 5182(Part-23)	µg / m ³	60.93	100
2	Particulate Matter PM _{2.5}	IS 5182(Part-24)	µg / m ³	20.58	60
3	Sulphur Dioxide as SO _x	IS 5182(Part-2)	µg / m ³	5.77	80
4	Oxides of Nitrogen as NO _x	IS 5182(Part-6)	µg / m ³	13.05	80
5	Ammonia as NH ₃	IS 5182(Part-25)	µg/m ³	3.80	400

INFERENCE	As per NAAQS Standards, Report Status :- The analyzed values for above measured parameter are within the limits
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Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water Pollution & Environment & Food samples will be discarded after 10 days. Once and mineral Filter papers & Thinblades will be discarded in 2 months from the date of issue of test results.



MSV Analytical Laboratories

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Email : msvalbellary2018@gmail.com, labmsv@gmail.com Web ID : www.msvalbellary.com



MSVAL/SE/RF/01/00

ANALYSIS REPORT FOR SOURCE EMISSION

1. Name and Address of the Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Stack ID : 52 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Monitoring : 27.01.2024
5. Date of Sample Receipt : 28.01.2024
6. Sample Code : 3792
7. Analysis Starting Date : 28.01.2024
8. Analysis Completion Date : 31.01.2024
9. Report Issue date : 31.01.2024

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Stack emission

ULR No: TC407124000002417F

GENERAL DETAILS

Instrument Used for Sampling	Sample collected with GTI-121
Fuel Used	Thick Spent Wash+Bagasse
Ambient Temperature (°C)	31
Stack Temperature (°C)	128
Velocity (m/s)	8.21
Height (m)	85
Diameter (m)	2.15
Cross sectional area (m ²)	3.6321
Quantity of flue gas discharged into atmosphere (Nm ³ /h)	81383.0

RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS-11255(Part1)	mg/Nm ³	49.20	150
Sulphur dioxide	IS-11255(Part2)	mg/Nm ³	12.78	100
Nitrogen dioxide	IS-11255(Part7)	mg/Nm ³	25.60	50

INFERENCE	As per KSPCB Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

*** End of Report ***



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water Pollution & Environment & Food samples will be discarded after 10 days. Gase and minerals Filter papers & Thimble will be discarded in 2 months from the date of issue of test reports.



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Email : msvallabellary2018@gmail.com, labmsv@gmail.com Web ID : www.msvallabellary.com



TC- 4071

MSVAL/AN/RF/01/00

AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of Sample Collected : Noise meter
4. Date of Monitoring : 27.01.2024
5. Report Issue Date : 31.01.2024
6. Method Adopted : IS 9899: 2020

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Ambient Noise

ULR NO: TC407124000002418F

S.No	Sample Location	Sample Code	Time Frequency	Results (Day time)			
				Maximum in dB(A) Leq	Minimum in dB(A) Leq	Leq. in dB(A)	Permissible limits in dB(A) Leq
1	Near Distillery Gate	3793	12.05pm to 12.20pm	66.9	62.4	64.0	75 (6.00am to 10.00pm)
2	Near Distillation	3794	12.30pm to 12.45pm	72.6	69.0	70.5	
3	Near Distillery CPU	3795	01.00pm to 01.15pm	74.3	70.5	72.8	

INFERENCE	As per KSPCB Standards,
	Report Status :- The Noise level for the all locations is within the limits

Analysed by

H. S.

Authorized Signatory

B. Chinna Lingana Gouda

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Gases and minerals Filter naners & Thinrhlas will be discarded in 3 months from the date of issue of test reports.



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Email : msvalbellary2018@gmail.com, labmsv@gmail.com Web ID : www.msvalbellary.com



TC- 4071

MSVAL/W/RF/01/00

ANALYSIS REPORT OF WATER QUALITY

1. Name and Address of Industry : M/s. Trualt Bioenergy Limited,
47/1,47/2,48,72,73,74, Kallapur S K,
Bagalkot-587155, Karnataka, India
2. Sample Marked as : CPU Treated Water
3. Name of the location : Distillery
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Water/Good
7. Date of Sample Collection : 27.01.2024
8. Date of sample receipt : 28.01.2024
9. Sample Code : 3797
10. Analysis Starting Date : 28.01.2024
11. Analysis Completion Date : 31.01.2024
12. Report Issue Date : 31.01.2024

Discipline: Chemical

Group: Pollution & Environment

Sub Group: Waste Water

ULR NO: TC407124000002420F

S.no	Parameters	Protocol	Unit	Result	Tolerance Limits As per KSPCB Consent
1	Color	IS : 3025(part-4)	Hazen	<1	All efforts should be made to remove Colour and unpleasant Odour as far as applicable
2	Odor	IS : 3025(part-5)	-	Agreeable	
3	pH @ 25°C	4500 H+ B APHA 23 rd Edition	-	7.82	5.5 - 8.5
4	Oil & Grease	5520 D APHA 23 rd Edition	mg/L	<1.0	Max 10
5	Bio-chemical Oxygen Demand (3 days at 27°C)	IS-3025(part 44)	mg/L	5.0	Max 100
6	Total Dissolved solids	2540 C APHA 23 rd Edition	mg/L	146.0	Max 2100
7	Total Suspended solids	2540 F APHA 23 rd Edition	mg/L	2.0	Max 100

INFERENCE

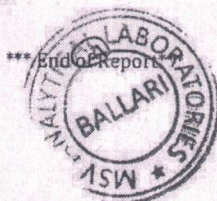
As per KSPCB Consent Standards ,

Report Status: - The analyzed values for above measured parameters are within the limits.

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water, Pollution & Environment & Food samples will be discarded after 10 days. Ores and minerals Filter papers & Thimbles will be discarded in 3 months from the date of issue of test reports.