

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

SOUTHERN ZONE, CHENNAI

Original Application No.84 of 2023 (SZ)

S.P.Surendranath Karthick,
S/o. K.R.Subramanian,
No.9, Lake View Street,
Iyappa Nagar, Madipakkam,
Chennai- 600 091.

...Applicant

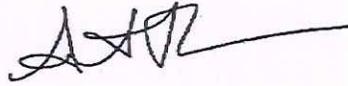
Vs

1. Manageing Director,
Tamil Nadu Cooperative Milk
Producers Federation Limited,
Aavin Illam,
Madhavaram Milk Colony,
Chennai- 600 051 & another.

...Respondents

INDEX

S.No	Description	Page No.
1.	INSPECTION REPORT FILED BY THE 2 ND RESPONDENT - TAMIL NADU POLLUTION CONTROL BOARD.	1 - 14



Filed by
Thiru.S. Sai Sathya Jith,
Advocate, Chennai.

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

NO. 10

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Title: [Title]
Date: [Date]

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Inspection Report by TNPCB officials in compliance with the Hon'ble National Green Tribunal, Southern Zone (SZ), Chennai order dated 04.07.2023 in O.A. No. 84 of 2023(SZ), Chennai

1.0 PREAMBLE

1.1 The Hon'ble National Green Tribunal, Southern Zone (SZ), Chennai order dated 04.07.2023 in O.A. No. 84 of 2023(SZ), Chennai has stated as follows.....

“ 3. The 2nd Respondent/Tamil Nadu Pollution Control Board is directed to make a spot inspection and file a report before the date of next hearing.”

2.0 DETAILED INSPECTION REPORT

2.1. In order to comply the Hon'ble National Green Tribunal, Southern Zone (SZ), Chennai dated 04.07.2023 in O.A. No. 84 of 2023 (SZ), Chennai stated above, the inspection was carried out on 17.07.2023 by the TNPCB officials of O/o.DEE,Ambattur, TNPCB

During inspection, it was noted that the following are the plastic waste generated in the unit of M/s. Tamil Nadu Cooperative Milk Producers Federation Ltd, Ambattur dairy:

1. The plastic waste such as used Poly Sachet are generated during the pouch filling process when there is a leak or damage in the milk sachets. The used poly sachets were also collected back from the customers.
2. The broken tubs are generated as plastic waste after damage.

Used Poly Sachet and Broken tubs

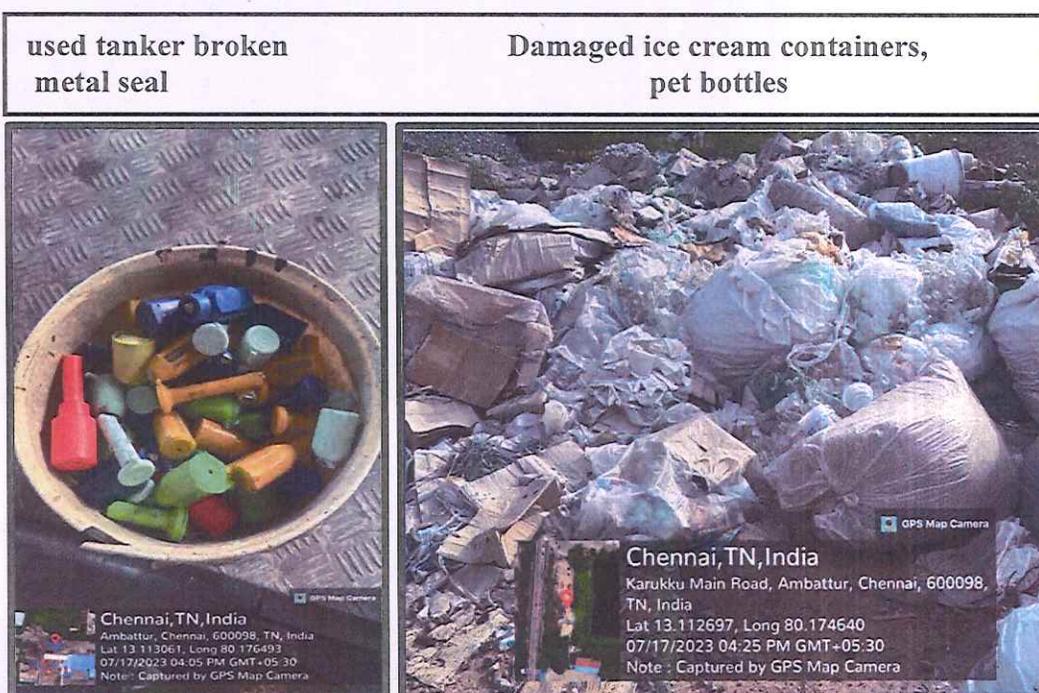


3. The milk powder and butter are covered by the plastic primary packaging material and packed in SMP poly laminated paper bags. These plastic packaging waste such as butter cartons and SMP poly laminated paper bags are generated after the use of milk powder and butter.

Butter cartons and SMP bags



4. The plastic waste such as used tanker broken metal seal are generated after its use in conveyor chain of Milk tanker doors.
5. The damaged plastic containers such as ice cream containers, pet bottles used for storage of butter milk are generated as plastic waste.

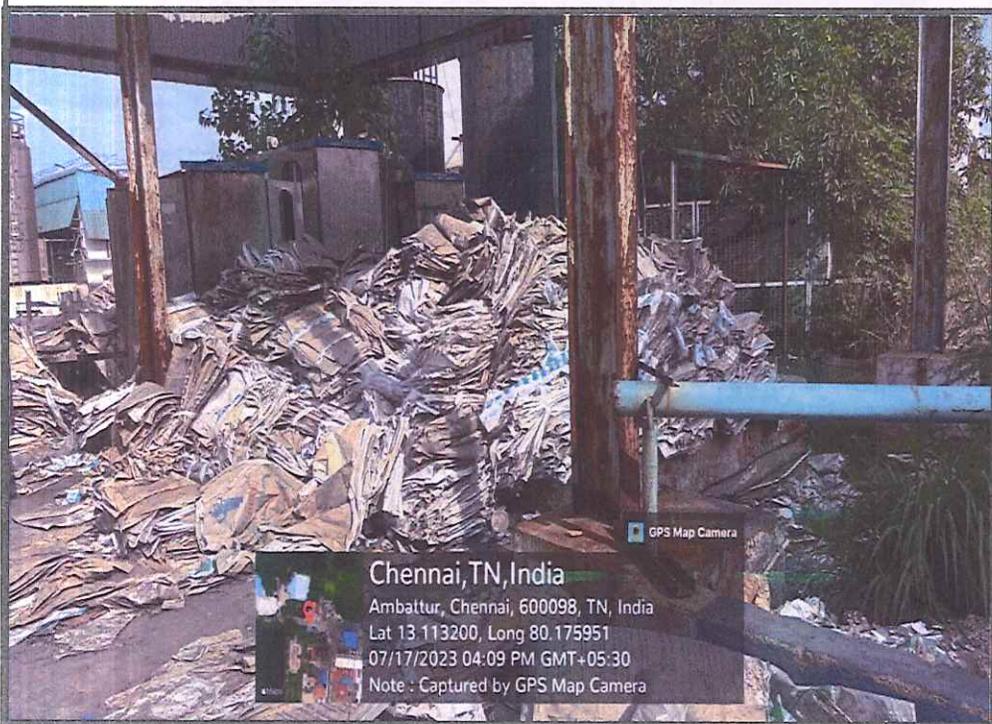


The register related to the quantity of plastic waste generation and disposal was verified and the copy is attached herewith for reference. Altogether a total of 150 MT of Plastic waste was stored in four locations in an open space. The photograph of the storage locations is attached below,

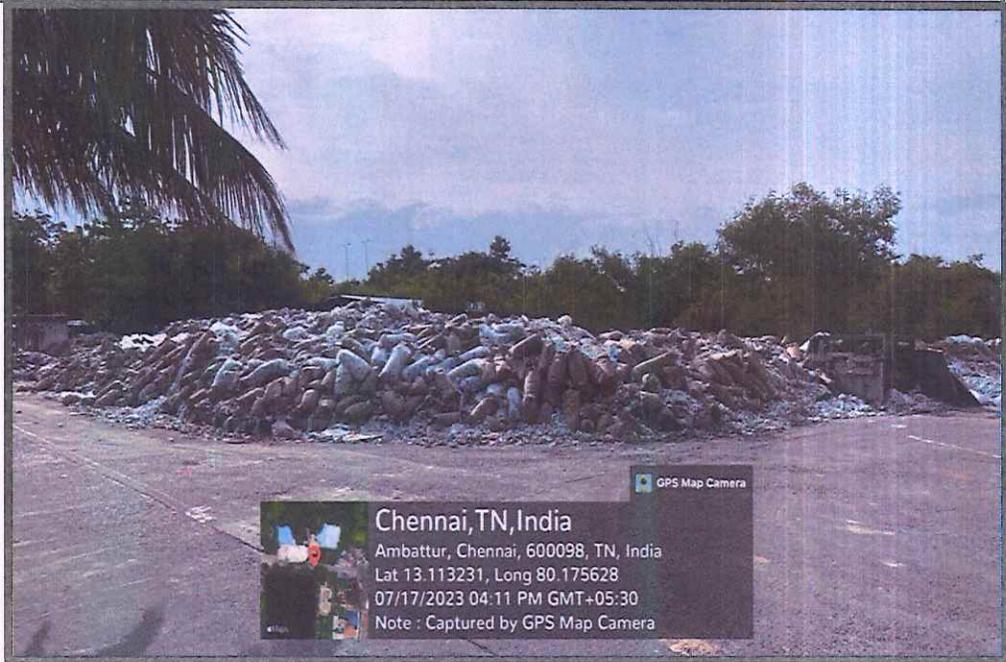
Location 1 – Storage of used craters



Location 2 – Storage of used Butter cartons and SMP bags



Location 3 – Storage of used Milk Sachets



Location 4 – Storage of damaged Pet bottles, ice cream containers etc.



The unit of M/s. Tamil Nadu Cooperative Milk Producers Federation Ltd, Ambattur dairy is requested to furnish the following documents vide Lr. No. TNPCB/DEE/AMB/RL/F. AMB0062/ Plastic waste/2023
Dated: 18.07.2023

- i. Document related to quantity of plastic waste generated and disposed such as register, indent etc. for the past 3 years.
- ii. Details of Plastic Waste collector for the past 3 years with consent order and Plastic waste registration details if any.
- iii. Details of plastic material supplier such as milk packets, ice cream containers, pet bottles, crates etc. with consent order and EPR registration details if any.
- iv. Action plan to remove the plastic waste accumulated in open yard.
- v. Action plan to properly handle the plastic waste and to store in a closed shed.
- vi. Being a Brand Owner, you are requested to apply and obtain EPR registration.
- vii. The unit shall comply with the Plastic Waste Management Rules, 2016.

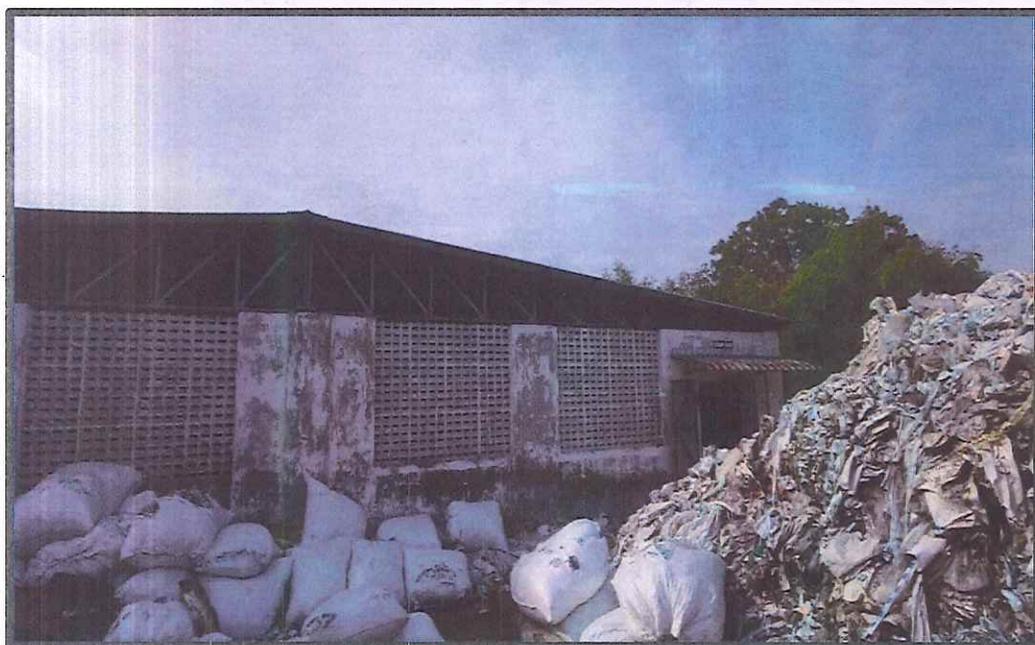
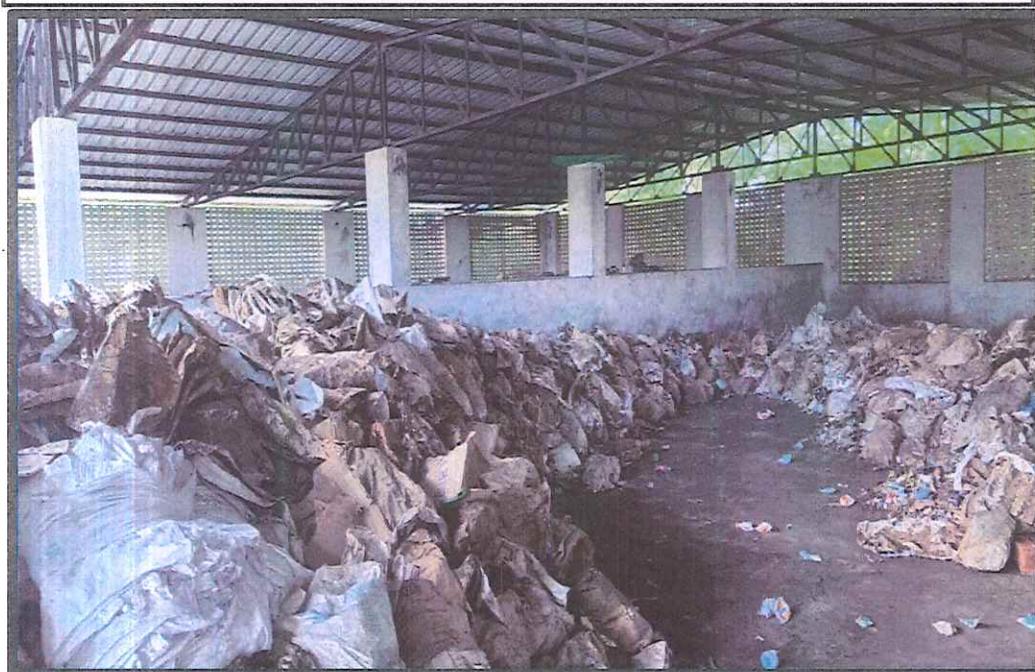
In this regard, the unit vide email dated 21.07.2023 has furnished certain details

- I. The details of plastic waste generation, present accumulated quantity in kgs, latest disposal quantity with date, waste disposer name, area of accumulation and action plan for the disposal of plastic waste

S. No.	Type of plastic waste	Place of utilization & waste generation	Present accumulated quantity in kgs	Last disposed quantity with date	Waste disposer name, registration no. and consent order	Area of accumulation	Action plan for disposal
1	Used Poly sachet	Pouch filling section	48210 kg	14.06.2023 - 5060 kg	M/s. 3 Son enterprises, Villupuram, CCO no.: W-315349	Scrap Yard in front of General stores	Tender file under process. It will be despatched within 45 days
2	Butter cartons and SMP poly laminated paper bags	Pouch filling section & milk reconstitution	3000 kg	20.09.2022 - 1580 kg	M/s. Source enterprises, Chennai	Scrap Yard in front of General stores	Tender file under process. It will be despatched within 45 days
3	Used tanker broken metal seal	Milk tanker doors	178 kg	21.09.2022 - 230 kg	M/s. Sakthi scraps, Chennai	Scrap Yard in front of General stores	Tender file under process. It will be despatched within 45 days
4	Broken tubs	Pouch filling section	10000 kg	21.07.2023 - 4000 kg	M/s. Benny plastics, Chennai	Scrap Yard in front of General stores	Tender file under process. It will be despatched within 45 days
5	Slushy garbage, semi composed poly films, semi composed SMP bags mixed with mud, leach mixed poly film dairy garbage deteriorated condition mud and sand, etc	Mixed waste from all sections	90530 kg	22.06.2023 - 5160 kg	M/s. Waste pro recycling, Hapur, Uttar Pradesh, CCO no.: 10657294/ Water	Scrap Yard in front of General stores	Already order issued for 40,000 kgs. It will be despatched within 15 days

- II. At present the plastic waste are stored in open area of about 5000 sq.ft and a closed storage area of 4300 sq.ft for the storage of plastic waste.

Photograph of plastic waste storage area



III. The milk Sachet film supplier's details

1	M/s.Shansco Packaging Pvt Ltd., Kancheepuram
2	M/s.Blossom Plastics & Packaging Company (P) Ltd, Hosur
3	M/s. Satya Prakash & Company, Hosur
4	M/s. Trimurti Poly-Chem Pvt Ltd., Bangalore

Since, the unit has furnished the details only partially, the unit was once again requested to furnish the remaining details as below vide letter Lr. NO.TNPCB/DEE/AMB/ RL/F.AMB0062/Plastic waste /2023, dated: 31.07.2023

1. Action plan to properly handle the plastic waste and to store in a closed shed.
2. Action plan to remove the plastic waste accumulated in open yard.
3. Details of Plastic Waste collector for the past 3 years with consent order and Plastic waste registration details if any.
4. Details of plastic material supplier such as milk packets, ice cream containers, pet bottles, craters etc. with consent order and EPR registration details if any.

Further, the unit is requested to furnish the above-mentioned details as early as possible. Also, the unit is instructed to take action to remove the plastic waste dumped in open space immediately and comply with the plastic waste management rules, 2016.

Also, the unit of M/s. Tamil Nadu Cooperative Milk Producers Federation Ltd, Ambattur dairy has been instructed to carry out the following measures:

1. The unit shall take immediate steps to remove the accumulated plastic waste immediately and shall dispose the plastic waste regularly to avoid further accumulation.
2. The unit shall segregate the plastic waste and other solid waste separately store the plastic waste in a closed shed as there may be chances for dispersion due to wind. The unit shall handle the plastic waste in a scientific manner such as baling etc. so as to avoid dispersion due to wind.
3. The unit shall provide closed storage area for plastic waste in addition to 4300 Sq.ft storage area already available within the premises.

Shudh 11/8/2023
**District Environmental Engineer
Tamil Nadu Pollution Control Board
Ambattur**

P. H
11/8/2023



TAMILNADU POLLUTION CONTROL BOARD

From
Er. S.IndiraGandhi, M.E.,
District Environmental Engineer
Tamil Nadu Pollution Control Board
77A, South Avenue Road,
Ambattur Industrial Estate,
Chennai – 600 058.

To
The Deputy General Manager,
Tamil Nadu Cooperative Milk Producers
Federation Ltd, ambattur dairy,
No.29&30, SIDCO Industrial Estate
Ambattur,
Chennai-600 098.

Lr. NO.TNPCB/DEE/AMB/ RL/F.AMB0062/Plastic waste /2023, dated: 18.07.2023

Sub: TNPC Board - O/o. DEE, Ambattur - Industries – M/s. Tamil Nadu Cooperative Milk Producers Federation Ltd, Ambattur Dairy, Plot No. 29 & 30, SIDCO Industrial Estate, Ambattur, Chennai – 600098 –Hon'ble NGT case O.A.84 of 2023(SZ), Chennai–Regarding.

Ref: 1. The Hon'ble NGT case O.A.84 of 2023(SZ), Chennai dated 04.07.2023
2. Inspection at the unit by the TNPCB officials on 17.07.2023

Kind attention is invited to the reference above cited, where in the Hon'ble NGT in O.A.84 of 2023(SZ), Chennai dated 04.07.2023 has stated that "the Tamil Nadu Pollution Control Board is directed to make a spot inspection and file a report before the date of next hearing". In this regard, unit was inspected on 17.07.2023 and requested to furnish the following document

1. Document related to quantity of plastic waste generated and disposed such as register, indent etc. for the past 3 years.
2. Details of Plastic Waste collector for the past 3 years with consent order and Plastic waste registration details if any.
3. Details of plastic material supplier such as milk packets, ice cream containers, pet bottles, crates etc. with consent order and EPR registration details if any.
4. Action plan to remove the plastic waste accumulated in open yard.
5. Action plan to properly handle the plastic waste and to store in a closed shed.
6. Being a Brand Owner, you are requested to apply and obtain EPR registration.
7. The unit shall comply with the Plastic Waste Management Rules, 2016

In this regard, you are requested to furnish the above-mentioned details on or before 21.07.2023.

18/7/23
சுற்றுச்சூழல்
பகுதி

Shahy - 18/7/2023
District Environmental Engineer,
Tamilnadu Pollution Control Board,
Ambattur

18/7/23

The History of the Republic

The history of the Republic is a long and complex one, spanning centuries of struggle and achievement. It is a story of a people who have fought for freedom, justice, and equality, and who have built a nation that has stood the test of time. The Republic's history is a testament to the power of the human spirit and the ability of a people to overcome adversity.

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Tamilnadu Co-operative Milk Producers Federation Ltd., Ambattur
Details of Waste Available at Ambattur Dairy

S. No.	Type of plastic waste	Place of utilization & waste generation	Present accumulated qty in kgs	Last disposed qty with date	Waste disposer name, registration no. and consent order	Area of accumulation	Action plan for disposal
1	Used Poly sachet	Pouch filling section	48210 kg	14.06.2023 - 5060 kg	M/s. 3 Son enterprises, villupuram, CCO no.: W-315349	Scrap Yard in front of General stores	Tender file under process. It will be depatched within 45 days
2	Hard board spoons/ Butter cartons and SMP poly laminated paper bags	Pouch filling section & milk reconstitution	3000 kg	20.09.2022 - 1580 kg	M/s. Source enterprises, Chennai	Scrap Yard in front of General stores	Tender file under process. It will be depatched within 45 days
3	Used tanker broken metal seal	Milk tanker doors	178 kg	21.09.2022 - 230 kg	M/s. Sakthi scraps, Chennai	Scrap Yard in front of General stores	Tender file under process. It will be depatched within 45 days
4	Broken tubs	Pouch filling section	10000 kg	21.07.2023 - 4000 kg	M/s. Benny plastics, Chennai	Scrap Yard in front of General stores	Tender file under process. It will be depatched within 45 days
5	Slushy garbage, semi composed poly films, semi composed SMP bags mixed with mud, leach mixed poly film dairy garbage deteriorated condition mud and sand, etc	Mixed waste from all sections	90530 kg	22.06.2023 - 5160 kg	M/s. Waste pro recycling, Hapur, Uttar pradesh, CCO no.: 10657294/ Water	Scrap Yard in front of General stores	Already order issued for 40,000 kgs. It will be depatched within 15 days

1	Scrap yard area:	4300 sq. ft
2	Outside waste deposition area:	5000 sq. ft

Milk Sachet film suppliers		
1	M/s. Shansco Packaging Pvt Ltd., Kancheepuram	CIN: U74950TN2016PT C110959
2	M/s. Blossom Plastics & Packaging Company (P) Ltd, Hosur	CIN: U02520TZ1982PT C008718
3	M/s. Satya Prakash & Company, Hosur	CIN:
4	M/s. Trimurti Poly-Chem Pvt Ltd., Bangalore	CIN: U85110KA1994PT C015301

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Email: Inbox (13)

DEE AMB TNPCB

in:inbox

13

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Tasks

Briefcase

Preferences

My Dashboard

Video Tutor

Close

Reply

Reply to All

Forward

Archive

Delete

Spam

Actions



Ambattur dairy - Details of waste available in the dairy - reg

From: agmead12@gmail.com

To: DEE AMB TNPCB

TNPCB 1.xlsx (10.6 KB) [Download](#) | [Briefcase](#)

Sir/ Madam,

It is herewith attached the details of waste available in ambattur dairy.

This is for your kind information.

AGM(Engg.),
TCMPF LIMITED,
AMBATTUR DAIRY.



TAMILNADU POLLUTION CONTROL BOARD

From Er. S.IndiraGandhi, M.E., District Environmental Engineer Tamil Nadu Pollution Control Board 77A, South Avenue Road, Ambattur Industrial Estate, Chennai – 600 058.	To The Deputy General Manager, Tamil Nadu Cooperative Milk Producers Federation Ltd, Ambattur dairy, No.29&30, SIDCO Industrial Estate Ambattur, Chennai-600 098.
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Lr. NO.TNPCB/DEE/AMB/ RL/F.AMB0062/Plastic waste /2023, dated: 31.07.2023

Sub: TNPC Board - O/o. DEE, Ambattur - Industries – M/s. Tamil Nadu Cooperative Milk Producers Federation Ltd, Ambattur Dairy, Plot No. 29 & 30, SIDCO Industrial Estate, Ambattur, Chennai – 600098 –Hon'ble NGT case O.A.84 of 2023(SZ), Chennai– Regarding.

Ref: 1. The Hon'ble NGT case O.A.84 of 2023(SZ), Chennai dated 04.07.2023
2. Inspection at the unit by the TNPCB officials on 17.07.2023
3. Letter to the unit vide Lr. NO.TNPCB/DEE/AMB/ RL/F.AMB0062/Plastic waste /2023, dated: 18.07.2023

With reference to the Hon'ble NGT Case in OA. 84 of 2023(SZ), the unit was inspected on 17.07.2023 and during inspection, it was noticed that the unit has dumped plastic waste of about 150 MT in four locations within the premises in an open area. In this connection, the unit was instructed to furnish certain details vide reference 3rd cited. But the unit has furnished the details only partially. Hence, the unit is once again requested to furnish the remaining details as below:

1. Action plan to properly handle the plastic waste and to store in a closed shed.
2. Action plan to remove the plastic waste accumulated in open yard.
3. Details of Plastic Waste collector for the past 3 years with consent order and Plastic waste registration details if any.
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Shubh 31/7/2023
District Environmental Engineer,
Tamilnadu Pollution Control Board,
Ambattur

21/07/23

1. Introduction

The first part of the paper discusses the importance of understanding the underlying structure of the data. This is particularly relevant in the context of high-dimensional data, where the number of variables is much larger than the number of observations. The goal is to identify the most important features that explain the variability in the data.

In this section, we will review the basic concepts of principal component analysis (PCA) and its application to the current problem. We will also discuss the challenges associated with PCA in high-dimensional settings.

The second part of the paper focuses on the development of a new method for dimensionality reduction. This method is based on the idea of sparse PCA, which aims to find principal components that are not only orthogonal but also sparse. This is achieved by imposing a sparsity constraint on the loadings of the principal components.

The proposed method is compared with standard PCA and sparse PCA. The results show that the new method outperforms the other two methods in terms of both reconstruction error and interpretability of the principal components. This is particularly true for datasets with a clear underlying structure and a small number of important features.

The third part of the paper discusses the application of the proposed method to a real-world dataset. The results show that the method is able to identify the most important features in the dataset, which are then used to build a predictive model. The model performs well on both training and testing data, demonstrating the effectiveness of the proposed method.

In conclusion, this paper has presented a new method for dimensionality reduction that is based on sparse PCA. The method is able to identify the most important features in the data, which are then used to build a predictive model. The results show that the proposed method outperforms standard PCA and sparse PCA in terms of both reconstruction error and interpretability of the principal components.

**BEFORE THE HON'BLE NATIONAL
GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

Original Application No.84 of 2023 (SZ)

S.P.Surendranath Karthick,
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...Applicant

Vs

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Tamil Nadu Cooperative Milk
Producers Federation Limited,
Aavin Illam,
Madhavaram Milk Colony,
Chennai- 600 051 & another.

...Respondents

**INSPECTION REPORT FILED BY THE 2ND
RESPONDENT - TAMIL NADU
POLLUTION CONTROL BOARD.**

**Advocate for Respondent: TNPCB
Thiru.Sai Sathya Jith,
Advocate, Chennai.**

Date:02.08.2023.

Date of hearing on:03.08.2023.

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