

सिपेट : पेट्रोकेमिकल्स तकनीकी
संस्थान (आई.पी.टी.)

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

श्रृंखला:बी / Series :B ANALYSIS REPORT

परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / S.L. No. 18005

को जारी / Issued to : **REVOLVE GREEN PVT Ltd.**
1st Floor, Induchacha House,
Above Bank of Baroda, Chhani Nava
yard Road, Vadodara-390002, Gujarat.

रिपोर्ट सं / Test Report No : 6230
दिनांक / Dated : 29.09.2023
संदर्भ / Your Ref. No. : NIL
दिनांक / Dated : 16.02.2023

मानक के अनुसार टेस्ट रिपोर्ट
Test Report as per Standard :

As per part C

PART A

ULR No. TC816423000003118P

PARTICULARS OF SAMPLE SUBMITTED

- | | |
|---|---|
| a) Name of the sample(as stated by the party) | : Bio-compostable Bags of Various Sizes |
| b) Grade/Variety/Type/Size/Class etc. | : --- |
| c) Code No. | : --- |
| d) Quantity (pcs/mtr/gm/nos) | : 1.5 kg. |
| e) Mode of packing
(Sealed carton/poly pouch/container or not) | : In Sealed Carton |
| f) Date of receipt of sample | : 16.02.2023 |
| g) Date of Performance of test | : 03.03.2023 |
| h) Any other information | : --- |

PART B

SUPPLEMENTARY INFORMATION

- | | |
|---|---------------------------------|
| a) Reference to sampling procedure | : Drawn & supplied by the party |
| b) Supporting documents for Measurements
Taken and results derived like graphs,
Tables, sketches and/or Photographs are
appropriate to test report if any (to be attached) | : As per Part C |
| c) Deviation from the test methods as
Prescribed in relevant ASTM/ISO/BIS/
Work instructions, if any | : Not Applicable |

AUTHORISED SIGNATORY

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Page 1 of 9

परितोष दिवासली / Paritosh Diwasali
संयुक्त निदेशक और प्रमुख / Joint Director & Head

सिपेट : पेट्रोकेमिकल्स तकनीकी संस्थान (आई.पी.टी.)

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ANALYSIS REPORT

Report No.:6230
Date : 29.09.2023

PART C TEST RESULTS

Sr. No.	Name of the Test	Test Method/Standard	Unit	Results obtained	Specified Requirements
Sample Details : Bio-Compostable Bags of Various Sizes (As stated by the party)					
1.	Material Identification	FTIR	--	Blends of PLA/PBAT	-----
2.	Disintegration(Dry mass passing through 2 mm sieve after 84 days)	ISO 17088:2021 Cl.6.2.1	%	9.2	Not more than 10%
3.	Ultimate aerobic Biodegradation (with reference to 100% degradation of positive reference	ISO 17088:2021 Cl.6.3.1	%	92.43	>90 (At the end of the test period not more than 180 days)
4.	Plant growth study- Monocotyledon(Sorghum) % Seed emergence Dicotyledon(tomato) % Seed emergence	ISO 17088:2021 Cl.6.4.3	%	95 93.5	>90 >90
5.	Acute Ecotoxic effects to earthworm	ISO 17088:2021 Cl.6.4.4	%	100	>90
a.	Survival adult earthworm at the end of 7 days				
b.	Survival adult earthworm at the end of 14 days			97.5	>90
c.	Biomass at the end of 14 days			95.20	>90
6.	Chronic Ecotoxic effects to earthworm	ISO 17088:2021 Cl.6.4.5	%	95	>90
a.	Survival adult earthworm at the end of 28 days				
b.	Survival adult earthworm at the end of 56 days			93	>90
c.	Biomass at the end of 56 days			94.6	>90
d.	Offspring at the end of 56 days			94	>90

Note: The detailed observation on biodegradability test is enclosed as Annexure -I

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**PART C
TEST RESULTS**

Sr. no.	Name of the Test	Test Method/Standard	Unit	Results obtained	Specified requirements
7.	Heavy metals concentrations # Arsenic (As) Copper (Cu) Nickel (Ni) Zinc (Zn) Cobalt (Co) Chromium (Cr) Molybdenum (Mo) Mercury (Hg) Cadmium (Cd) Lead (Pb) Selenium (Se)	ISO 17088:2021	Mg/l	B.L.Q.(Q.L.=0.05) 8.15 0.16 107.3 B.L.Q(Q.L.=0.05) 0.22 B.L.Q.(Q.L.=0.05) B.L.Q(Q.L.=0.05) B.L.Q(Q.L.=0.05) 4.63 B.L.Q(Q.L.=0.05)	20 500 100 2500 ---- 300 ---- 10 20 500 -----

*Based on Municipal waste (Management and Handling) Rules, 1999 notified on 27th September, 1999 by Ministry of Environment and Forests, Government of India. Note that Concentration of Metals like Cobalt, Molybdenum, and Selenium is not mentioned in the notification.

PART D

REMARKS : Nil

Note :

1. This Test Report / Certificate is issued only for the samples submitted to the laboratory.
2. The results stated above related only to the items tested.
3. The quality of the subsequent production lot has to be ensured by the purchaser.
4. This Test Report shall not be reproduced except in full without the written approval of the laboratory.
5. Any anomaly/ discrepancy in this report should be brought to the notice of the laboratory within 30 days from the date of issue.
6. Subcontracted Tests (if any): # Gujarat Laboratory

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Annexure-I

OBSERVATION FOR BIODEGRADABILITY TEST AS PER IS /ISO 17088:2008

Customers Details:

Name of the Party :- REVOLVE GREEN PVT Ltd.

1. Sample Details : Bio-Cornpostable Bags of Various Sizes (As declared by the party)

2. Material Identification by FTIR : Blends of poly lactic Acid (PLA)/ Poly Butylene Adipate Co-Terephthalate (PBAT)

3. Observation:-

a) Conditions of reaction mixtures

Origin of Compost

: Livestock excreta, municipal and vegetable waste

Reaction Temperature

: 58° (±2°C)

Dry Solid

: 53.6 %

Volatile Solid

: 36.5 %

CO₂ evolved during 1st 10 days

in blank vessels

: 53.2 mg/g of volatile solids of compost

Test Duration

: 128 Days

Reference Material

: Cellulose

Volume of reaction vessel

: 3000ml.

b) pH of Test medium

Sl. No.	Composting Vessel	pH (before test)	pH (after test)
1	Blank 1	7.1	7.9
2	Blank 2	7.5	8.1
3	Blank 3	8.0	8.2
4	Cellulose 1	7.6	8.5
5	Cellulose 2	8.1	7.5
6	Cellulose 3	7.5	7.4
7	Negative 1	8.3	7.8
8	Negative 2	8.1	7.3
9	Negative 3	8.0	8.2
10	Sample 1	8.5	8.4
11	Sample 2	8.1	7.8
12	Sample 3	8.2	7.4

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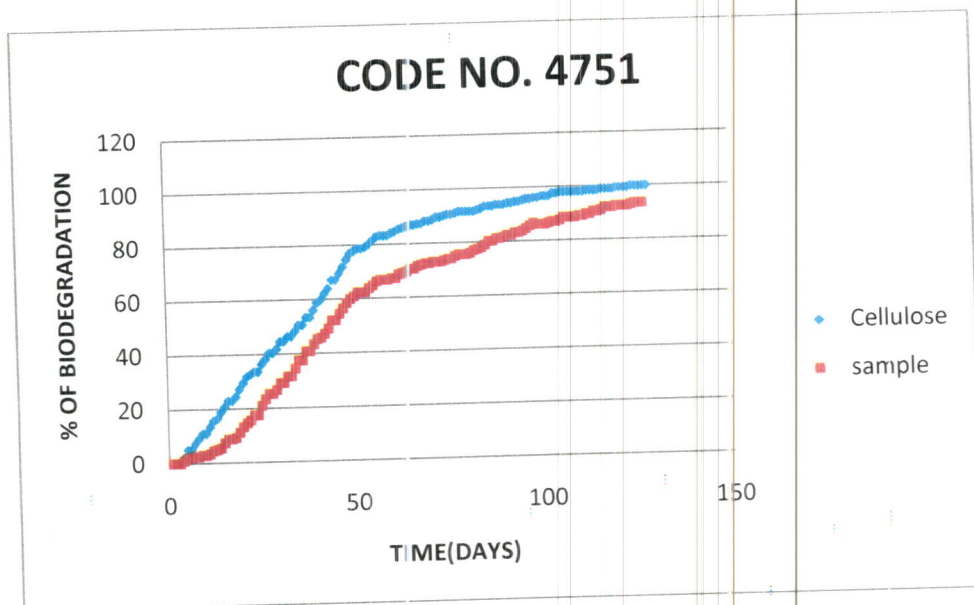
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4. Result : Percentage biodegradation relative to positive reference
MEAN (%) : 93.43 %

The reference material- Cellulose (%) : 100%



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5. Visual Observation of Sample:

Description	Week 1	Week 5	Week 10	Week 15	Week 18
Structure	Bag sample	Bag sample	Bag sample	Bag sample	Bag sample
Moisture	Adequate Moisture level	Adequate Moisture level	Adequate Moisture level	Adequate Moisture level	Adequate Moisture level
Colour	Milky white	Milky white	Milky white	Faded white	---
Fungal Development	Nil	Nil	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

6. Visual Observation of Compost

Description	Week 1	Week 5	Week 10	Week 15	Week 18
Structure	Fine Particles	Fine Particles	Fine Particles	Fine Particles	Fine Particles
Moisture	Adequate moisture level	Adequate moisture level	Adequate moisture level	Adequate moisture level	Adequate moisture level
Colour	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Fungal Development	Nil	Nil	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like


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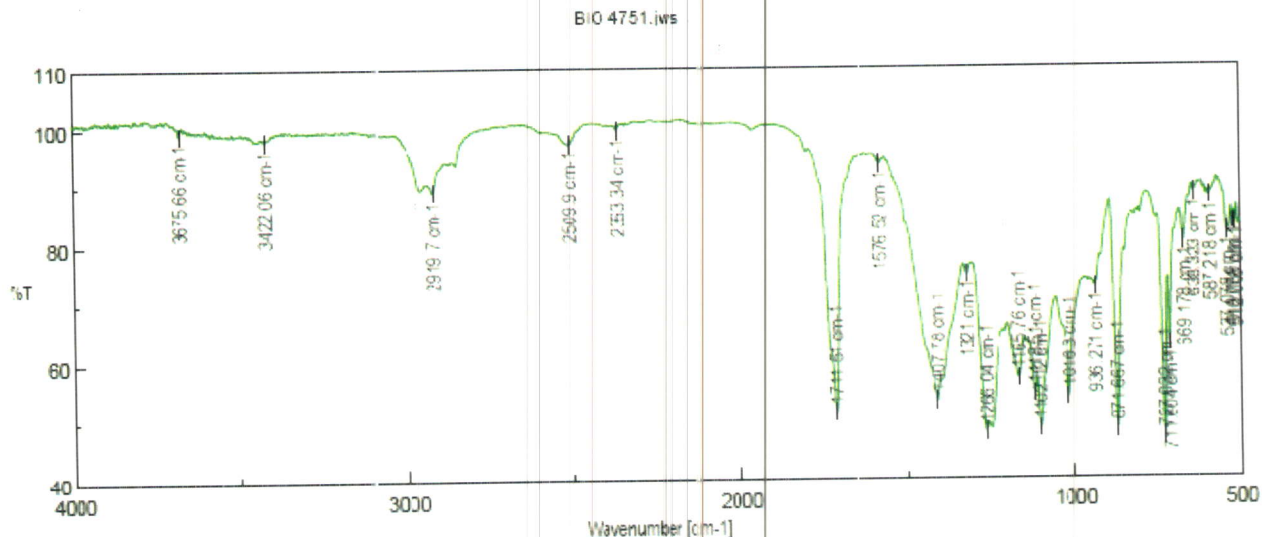
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7. FTIR Analysis

Sample Details : **Bio-Compostable Bags of Various Sizes** (As declared by the party)



Wave number (cm ⁻¹)	Nature of Bond
1)3675.66	O - H Stretching vibrations
2)3422.06	N- H Stretching vibrations
3)2509.9	O - H Bending vibrations
4)1711.61	C=O Stretching vibrations
5)871.667	C = C Bending vibrations

Comment: The above FTIR analysis indicates the sample is Blends of Poly Lactic Acid

(PLA)/Polybutylene Adipate co-terephthalate (PBAT) Bio-Compostable Bags of Various Sizes.

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ANALYSIS REPORT

Report No.:6230
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8. DISINTEGRATION - AFTER 12 WEEKS

CODE NO : 4751

Before Disintegration



BEFORE DISINTEGRATION

CODE NO : 4751

After Disintegration

(12 weeks)



AFTER DISINTEGRATION

The disintegration of the sample by passing through 2 mm sieve after 12 week in composting condition as per ISO 17088-2021/ISO 17088: 2012 was found not more than 10% of original dry mass remain.

AUTHORISED SIGNATORY

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सिपेट : पेट्रोकेमिकल्स तकनीकी संस्थान (आई.पी.टी.)

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

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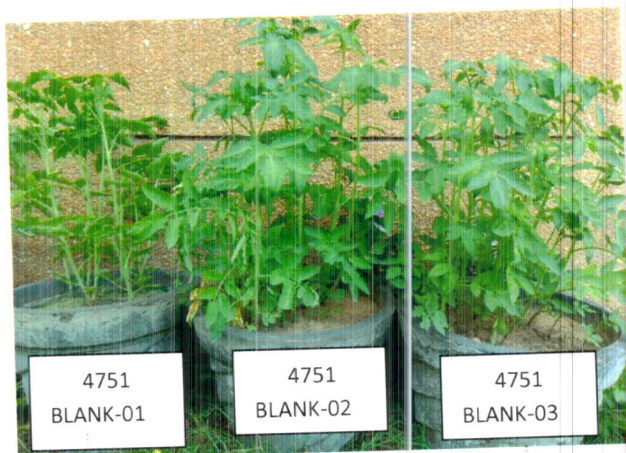
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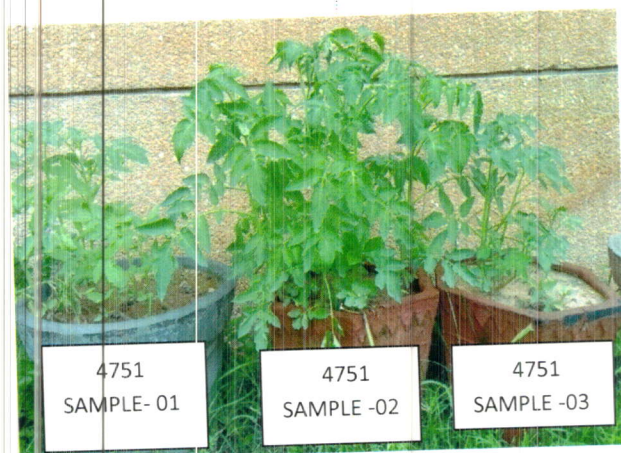
ANALYSIS REPORT

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9. GERMINATION AND PLANT GROWTH STUDY



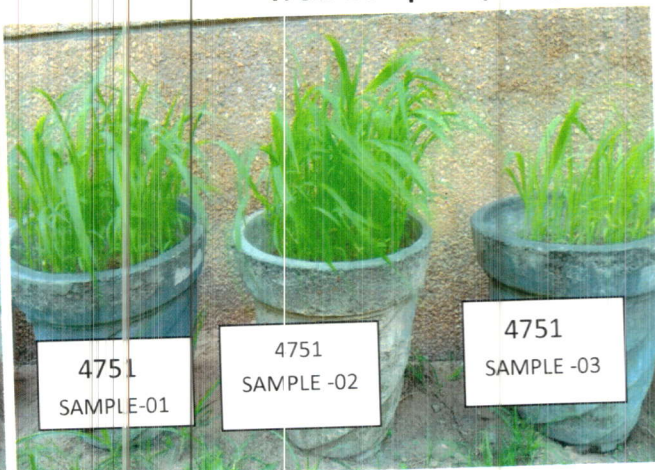
4751 Compost (Control)



4751 Compost (Sample)



4751 Compost (Control)



4751 Compost (Sample)

The percentage of seed germination rate is found to be greater than 90% for both Monocotyledon and Dicotyledon.

AUTHORISED SIGNATORY

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