



Certificate of Registration

This is to certify that

YASH LAXMI ECO PACK PRIVATE LIMITED

**PLOT NO-165, KURARI, CHAW ROAD, DURGAUTI, KAIMUR,
BIHAR-821105, INDIA**

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 22000:2018

Food Safety Management Systems

For the following scope of activities:

**MANUFACTURE OF BIODEGRADABLE BAGASSE PULP
TABLEWARE INTENDED FOR FOOD CONTACT APPLICATIONS.**

Date of Certification: 18th July 2026

1st Surveillance Audit Due: 17th July 2027

2nd Surveillance Audit Due: 17th July 2028

Certificate Expiry: 17th July 2029

Certificate Number: 305026071891F



Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.
(In case surveillance audit is not allowed to be conducted; this certificate shall be suspended / withdrawn).

The Validity of this certificate can be verified at www.qrocert.org

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

India Office : QRO Certification LLP

142, IInd Floor, Avtar Enclave, Near Paschim Vihar West Metro Station, Delhi-110063, (INDIA)

Website : www.qrocert.org, E-mail : info@qrocert.org

ISO 9001:2015

Certificate of Registration

This is to Certify that
Quality Management System of

YASH LAXMI ECO PACK PRIVATE LIMITED

PLOT NO-165, KURARI, CHAW ROAD, DURGAUTI, KAIMUR,
BIHAR-821105, INDIA

has been assessed and found to conform to the requirements of

ISO 9001:2015

For the following scope :

MANUFACTURE OF BIODEGRADABLE BAGASSE PULP TABLEWARE.

Certificate No : **26MEQWP89**
Initial Registration Date : 18/07/2026 Issuance Date : 18/07/2026
Date of Expiry : 17/07/2029
1st Surve. Due : 18/06/2027 2nd Surve. Due : 18/06/2028


Director



Magnitude Management Services Pvt. Ltd.

Third Floor, A-60, Sector-2, Noida, Gautam Budh Nagar, U.P.-201301, India. e-mail: info@mmscertification.com, website: www.mmscertification.com

*Subject to Successful Surveillance Audit, in case Surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn.

Certificate Verification: Please Re-check the validity of certificate at <http://www.mmscertification.com/activeclients.aspx> or www.mmscertification.com at Active Clients.
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ISO 14001:2015

Certificate of Registration

This is to Certify that
Environmental Management System of
YASH LAXMI ECO PACK PRIVATE LIMITED

PLOT NO-165, KURARI, CHAW ROAD, DURGAUTI, KAIMUR,
BIHAR-821105, INDIA

has been assessed and found to conform to the requirements of

ISO 14001:2015

For the following scope :

MANUFACTURE OF BIODEGRADABLE BAGASSE PULP TABLEWARE.

Certificate No	: 26MEEWO77	
Initial Registration Date	: 18/07/2026	Issuance Date : 18/07/2026
Date of Expiry	: 17/07/2029	
1st Surve. Due	: 18/06/2027	2nd Surve. Due : 18/06/2028


Director



(Scan to Verify)

Magnitude Management Services Pvt. Ltd.

Third Floor, A-60, Sector-2, Noida, Gautam Budh Nagar, U.P.-201301, India. e-mail: info@mmscertification.com, website: www.mmscertification.com

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ISO 45001:2018

Certificate of Registration

This is to Certify That
Occupational Health & Safety Management System of
YASH LAXMI ECO PACK PRIVATE LIMITED

PLOT NO-165, KURARI, CHAW ROAD, DURGAUTI, KAIMUR,
BIHAR-821105, INDIA

has been assessed and found to conform to the requirements of

ISO 45001:2018

For the following scope :

MANUFACTURE OF BIODEGRADABLE BAGASSE PULP TABLEWARE.

Certificate No	: 26MEOWM91		
Initial Registration Date	: 18/07/2026	Issuance Date	: 18/07/2026
Date of Expiry	: 17/07/2029		
1st Surve. Due	: 18/06/2027	2nd Surve. Due	: 18/06/2028


Director



(Scan to Verify)

Magnitude Management Services Pvt. Ltd.

Third Floor, A-60, Sector-2, Noida, Gautam Budh Nagar, U.P.-201301, India. e-mail: info@mmscertification.com, website: www.mmscertification.com

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TEST REPORT

Report No. : MAN:HL:1648004370

ISSUE DATE: 03-Jul-2025



YASH LAXMI ECO PACK PVT LTD
PLOT NO 124, JAWAHAR NAGAR EXTN,
BHELUPUR, VARANASI – 221010
INDIA
CONTACT PERSON: SANJAY MITTAL

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION BAGASSE MOULDED TABLEWARE PRODUCTS (9" ROUND PLATE, 10" 3 CP ROUND PLATE, 12" ROUND PLATE 12" 4 CP ROUND PLATE, 180 ML BOWL, 150 ML SQUARE BOWL)
COLOUR WHITE
COUNTRY OF ORIGIN INDIA

LAB PROVIDED DETAILS:

CONDITION OF SAMPLE COMPLETE AND OK

THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES:

SGS GURUGRAM LABORATORY: EXTRACTABLE HEAVY METALS,
SGS MANESAR LABORATORY- MICROBIOLOGICAL TEST, MICROWAVE OVEN TEST, HEAT RESISTANCE

SAMPLE RECD ON 24-Jun-2025 **TESTING PERIOD** : 25-Jun-2025 - 03-Jul-2025

SUMMARY OF TEST RESULTS:

TESTS	PASS	FAIL	REMARKS
1. MATERIALS AND ARTICLES IN FOOD CONTACT (ENGLAND) REGULATION, UK STATUTORY INSTRUMENTS 2012 NO. 2619 IS ALIGNED WITH EU REG AND GUIDE ON PLACING GOODS ON UK MARKET AFTER BREXIT	--		
EXTRACTABLE HEAVY METALS	P		
2. MICROBIOLOGICAL TEST	P		
3. MICROWAVE OVEN TEST	P		
4. HEAT RESISTANCE	P		

Remarks: P=Pass

F=Fail

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S). RESULTS APPLY TO THE SAMPLE AS RECEIVED

Per Pro SGS India Pvt. Ltd.

PURUSHOTTAM TRIPATHI
TECHNICAL EXECUTIVE

Authorized Signatory-Mechanical

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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" Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days for all other samples from the date of issue of report. The samples from the regulatory bodies are to be retained as specified. This document cannot be reproduced, except in full, without prior written approval of the company.

Statement of conformity is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing. Sample is not drawn by the Laboratory.

Connectivity and product, Testing Laboratory, Plot no. 21, Sector 3, IMT Manesar, Gurugram District, Haryana- 122050 (India) t: (+91-124 678 7600

TEST REPORT

Report No. : MAN:HL:1648004370

ISSUE DATE: 03-Jul-2025



TEST RESULTS:

1. MATERIALS AND ARTICLES IN FOOD CONTACT (ENGLAND) REGULATION, UK STATUTORY INSTRUMENTS 2012 NO. 2619 IS ALIGNED WITH EU REG AND GUIDE ON PLACING GOODS ON UK MARKET AFTER BREXIT:

EXTRACTABLE HEAVY METALS:-

Method: With reference to EN 645:1993 (cold water extraction) and EN 647:1993 (hot water extraction). Analysis was performed by ICP-OES / ICP-MS

Test Item	Result (mg/dm ²)	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
	Hot Water	Cold Water		
Extractable Lead	Not Detected	Not Detected	0.002	0.003
Extractable Cadmium	Not Detected	Not Detected	0.001	0.002
Extractable Mercury	Not Detected	Not Detected	0.001	0.002
Conclusion	Pass	Pass	--	--

Tested Item: BAGASSE MOULDED TABLEWARE PRODUCTS

Note:

- mg/dm² = milligram per square decimeter.
- Permissible limit has been taken from UK Statutory Instruments 2012 No. 2619.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory

2. MICROBIOLOGICAL TEST:

METHOD: Sampling with reference to ISO 18593: 2018

TEST ITEM	METHOD	TEST RESULT	UNIT
Total Plate Count	ISO 4833 : Part 1 : 2022	<10	cfu/unit
Coliforms	ISO 4831 : 2006	Absent	Per unit
Escherichia Coli	ISO 7251 : 2023	Absent	Per unit
Yeast & mould	ISO 21527: Part 1 : 2008	<10	cfu/unit
Salmonella spp	ISO 6579 Part 1 : 2017	Absent	Per unit
Pseudomonas aeruginosa	SO-IN-AFL-MNR-M-TE-013	Absent	Per unit
Staphylococcus aureus	ISO 6888 : Part 3 : 2003	Absent	Per unit

Tested Item: BAGASSE MOULDED TABLEWARE PRODUCTS

Note:

- Cfu: Colony forming unit per swab.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory

TEST REPORT

Report No. : MAN:HL:1648004370

ISSUE DATE: 03-Jul-2025



3. MICROWAVE OVEN TEST:

Method: SGS-TM-HL-00123, 2017
Test Condition: Specified cycles used : 01
 No. Of Tested Sample: 01
 Each Cycle Time: 1 Min
 Substrate Used: Filled with 50% Water

Tested Name	Observation	Requirement
Microwave Oven Test	No failure observed.	No Warping, Cracking, or Significant Softening.
Conclusion	Pass	

Tested Item: BAGASSE MOULDED TABLEWARE PRODUCTS

Note : Test performed as per customer test condition

4. HEAT RESISTANCE TEST:

Method: SGS in house;Based on Customer Specified.
Test Condition: Filled with Hot Water (80% Capacity) and Kept for 15 Min. at 70°C

TEST NAME	TEST RESULT	REQUIREMENT
Heat Resistance Test	No Leakage observed.	Plates should retain structural integrity. No deformation, burns, or discoloration.
Conclusion	Pass	--

Tested Item: BAGASSE MOULDED TABLEWARE PRODUCTS

Note:

- °C = Degree Celsius.
- Test condition was specified by customer.
- Above all testing has been performed as per customer request.

TEST REPORT

Report No. : MAN:HL:1648004370

ISSUE DATE: 03-Jul-2025



Sample as Received (Tested Sample)



Sample as Received (Grouped Sample)



*****END OF REPORT*****

JOE No. : 2548802281

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Page 4 of 4

Control No.:1648504782

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Connectivity and product, Testing Laboratory, Plot no. 21, Sector 3, IMT Manesar, Gurugram District, Haryana- 122050 (India) t: (+91-124 678 7600

**सिपेट: पेट्रोकेमिकल्स तकनीकी
संस्थान (आईपीटी)**

रसायन एवं पेट्रोसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
गिण्डी, चेन्नई - 600 032.
फोन : 91-44-2225 4701 (6 लाइन)
ई-मेल : chennai@cipet.gov.in
वेबसाइट : www.cipet.gov.in



**CIPET: INSTITUTE OF PETROCHEMICALS
TECHNOLOGY (IPT)**

Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
Guindy, Chennai - 600 032.
Phone : 91-44-2225 4701 (6 Lines)
E-mail : chennai@cipet.gov.in
Website : www.cipet.gov.in

संदर्भ/Ref: परीक्षण/TR/ 25081733

दिनांक/Date: 30-03-2026

प्रति /To,

YASH LAXMI ECO PACK PVT LTD.

Plot No.B25/33-126, Jawahar Nagar Extension, Behlupur, Varansi Uttar
Pradesh - 221 010

विषय/Sub : Testing of samples-reg.

संदर्भ/Ref : Your letter no. --

Dated: 04-08-2025

महोदय,

कृपया हमारी परीक्षण रिपोर्ट क्रमांक प्राप्त करें। Please find enclosed herewith our Test Report no.	84049	दिनांक dated	30-03-2026
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धन्यवाद,

भवदीय

अधिकृत हस्ताक्षरकर्ता

संलग्न : उपर्युक्तानुसार
Encl:1.a/a.

मुख्यालय : सिपेट, गिण्डी, चेन्नई - 600 032. Head Office : CIPET, Guindy, Chennai - 600 032.

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, अयोध्या, बडो, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, भावनगर, भागलपुर, बिहटा, चन्द्रपुर, चेन्नई, देहरादून, दिल्ली, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुरथल, मैसूर, नवसारी, पारादीप, पालक्काड, रायपुर, राँची, तामोटा, वाराणसी एवं विजयवाड़ा
Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Ayodhya, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Bhavnagar, Bhagalpur, Bihta, Chandrapur, Chennai, Dehradun, Delhi, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murthal, Mysuru, Navsari, Paradip, Palakkad, Raipur, Ranchi, Tamot, Varanasi & Vijayawada

केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान

पेट्रोकेमिकल्स तकनीकी संस्थान

रसायन एवं पेट्रोसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

गिण्टी, चेन्नै - 600 032.

फोन : 91-44-2225 4701-6 फैक्स : 91-44-22254707

ई-मेल : chennai@cipet.gov.in वेबसाइट : www.cipet.gov.in



सिपेट CIPET



CENTRAL INSTITUTE OF PETROCHEMICALS
ENGINEERING & TECHNOLOGY
INSTITUTE OF PETROCHEMICALS TECHNOLOGY

Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

Guindy, Chennai - 600 032.

Tel : 91-44-2225 4701-6 Fax : 91 - 44 - 22254707

E-mail : chennai@cipet.gov.in Website : www.cipet.gov.in

को जारी /
Issued to :

परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / Sl. No. **38501**

रिपोर्ट सं / REPORT NO. **84049**

दिनांक / Date : **30-03-2026**

Pages.....Nos. Part A,B,C & D

संदर्भ / Customer Let. Ref : --

04-08-2025

परीक्षण मानक स्तर के अनुसार परीक्षण रिपोर्ट / TEST REPORT AS PER TEST STANDARD : Refer Part C

भाग - क / PART - A

प्रस्तुत सैपिल का विवरण / PARTICULARS OF SAMPLE SUBMITTED

- अ) सैपिल का नाम / a) Name of the Sample : Biodegradable Tabelware - Tray - as stated by party
- आ) सैपिल प्राप्त होने की तारीख / b) Date of Receipt of sample : 12-08-2025
- इ) ग्रेड/प्रकार/आकार/वर्ग / c) Grade / variety / type / size / class : Nil
- ई) घोषित मूल्य / d) Declared value, If any : Nil
- उ) कोड सं. / e) Code No. : Nil
- ऊ) बैच सं. एवं निर्माण तारीख / f) Batch No. and Date of Manufacture: Nil
- ऋ) मात्रा / g) Quantity : 2 kg
- ए) पैकिंग की रीति / h) Mode of Packing : carton packing
- ऐ) मोहर बंद या नहीं / i) Sealed or not : Sealed
- ओ) कोई अन्य सूचना / j) Any other information :

25081733

भाग - ख / PART - B

अनुपूरक सूचनाएँ / SUPPLEMENTARY INFORMATIONS

- अ) सैपिलिंग कार्यवाहियों हेतु संदर्भ / a) Reference to sampling procedure : Sampling not done by this lab
- आ) माप करने हेतु लिए गए सहायक दस्तावेज एवं प्राप्त परिणाम
- ब) Supporting documents for the measurement taken and result derived : As given in Part C
- इ) संबंधित कार्य अनुदेशों में निर्धारित के अनुसार परीक्षण रीति से कोई परिवर्तन
- उ) Deviation from the test method as prescribed in relevant work instructions, if any : No deviation from the standard

केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान

पेट्रोकेमिकल्स तकनीकी संस्थान

रसायन एवं पेट्रोसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

गिण्टी, चेन्नै - 600 032.

फोन : 91-44-2225 4701-6 फैक्स : 91-44-22254707

ई-मेल : chennai@cipet.gov.in वेबसाइट : www.cipet.gov.in



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CENTRAL INSTITUTE OF PETROCHEMICALS
ENGINEERING & TECHNOLOGY
INSTITUTE OF PETROCHEMICALS TECHNOLOGY

Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

Guindy, Chennai - 600 032.

Tel : 91-44-2225 4701-6 Fax : 91 - 44 - 22254707

E-mail : chennai@cipet.gov.in Website : www.cipet.gov.in

परीक्षण रिपोर्ट / TEST REPORT

रिपोर्ट सं / **REPORT NO. :84049**

क्र.सं / SI. No.

38501

दिनांक / Date : **30-03-2026**

Test Duration : 28-08-2025 to 30-03-2026

भाग - ग / **PART - C**

sl. No.	Name of the test	परीक्षा-विधि / Test method // Standard	TEST RESULTS unit	Results Obtained	Specific Requirements
1	Material Identification	FTIR & DSC	-	Cellulose (Paper)	-
2	Disintegration (Dry mass remains in 2 mm sieve after 84 days)	ISO 17088:2021 Cl.no. 6.2	%	7.4	Not more than 10
3	Ultimate aerobic Biodegradation (with reference to 100% degradation of positive reference)	ISO 17088:2021 Cl.no. 6.3	%	90.4 (At the end of 138 days)	> 90 (At the end of the test period not more than 180 days.)
4	Plant growth test				
	Monocotyledon (Sorghum) % Seed emergence	OECD 208 Guidelines	%	94	> 90
	Dicotyledon (Cress) % Seed Emergence		%	93	> 90
5	Acute Ecotoxic effects to earthworm	ISO 11268-1 : 2012	%		
a	Survial of adult earthworm at the end of 7 days			100	Shall be more than 90
b	Survial of adult earthworm at the end of 14 days			98	Shall be more than 90
c	Biomass end of the 14 days			95	Shall be more than 90
6	Chronic ecotoxic effets to earthworm	ISO 11268-2 : 2023	%		
a	Survial of adult earthworm at the end of 28 days			96	Shall be more than 90
b	Survial of adult earthworm at the end of 56 days			96	Shall be more than 90
c	Offspring at the end of 56 days			97	Shall be more than 90
d	Biomass end of the 56 days			96	Shall be more than 90

The detailed observation on biodegradability test is enclosed as Annexure


AUTHORISED SIGNATORY
Dr. Radhashyam Giri
Technical Officer


AUTHORISED SIGNATORY
S. Udhayamalar,

रिपोर्ट सं / REPORT NO. :

84049

परीक्षण परिणाम / TEST RESULTS

दिनांक /Date :

30-03-2026

Issued to: YASH LAXMI ECO PACK PVT LTD., Plot No.B25/33-126, Jawahar Nagar Extension,
Behlupur, Varansi Uttar Pradesh - 221 010

Customer Letter No. Nil, dtd. 04/08/2025

PART C - TEST RESULTS

Sl.No	Name of the Test	Test Method/ Standard	Unit	Results Obtained	Specified Requirements*
7	Heavy metals concentration				
a.	Arsenic (As)			Not Detected	10
b.	Copper (Cu)			0.04.3	300
c.	Nickel (Ni)			0.0655	50
d.	Zinc (Zn)			0.022	1000
e.	Cobalt (Co)	ISO	mg/kg	Not Detected	-
f.	Chromium (Cr)	17088:2021		0.3552	50
g.	Molybdenum (Mo)			0.893	-
h.	Mercury (Hg)			Not Detected	0.15
i.	Cadmium (Cd)			0.0045	5
j.	Lead (Pb)			0.0784	100
k.	Selenium (Se)			0.1721	-

* Based on Municipal solid waste (Management and Handling) Rules, 2016 notified on 8th April, 2016 by Ministry of Environment , Forests and climate change, Government of India. Note that concentration of metals like cobalt, molybdenum, and selenium is not mentioned in the notification.

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): Nil

AUTHORISED SIGNATORY

Dr. Radhashyam Giri

AUTHORISED SIGNATORY

S. Udhayamalar,

रिपोर्ट सं / REPORT NO. :

84049

परीक्षण परिणाम / TEST RESULTS

दिनांक /Date :

30-03-2026

Issued to: YASH LAXMI ECO PACK PVT LTD., Plot No.B25/33-126, Jawahar Nagar Extension,
Behlupur, Varansi Uttar Pradesh - 221 010

Customer Letter No. Nil, dtd. 04/08/2025

OBSERVATION FOR BIODEGRADABILITY TEST AS PER ISO 17088:2021

- 1 Sample Details (As stated by Party): Biodegradable Tableware - Tray
- 2 Material Identification by FTIR : Cellulose (Paper)

BIODEGRADABILITY TEST AS PER ISO:14855-1

3 Observation

(i) Conditions of reaction mixtures

Origin of Compost: Livestock excrement, municipal and vegetable waste

Reaction Temperature (°C) : 58

Dry Solid (%) : 53.42

Volatile content (%) : 17.2

CO₂ evolved during first 10days in blank : 50.64 mg/g

Test duration (days) : 138 days

Reference material : Cellulose

Volume of reaction vessel (mL) : 3000 ml

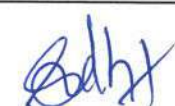
(ii) pH of test medium

S.No.	Compost Vessel	pH (Before)	pH (After)
1	Blank 1	7.34	7.32
2	Blank 2	7.35	7.33
3	Blank 3	7.31	7.28
4	Cellulose 1	7.19	7.16
5	Cellulose 2	7.23	7.21
6	Cellulose 3	7.21	7.18
7	Negative 1	7.16	7.15
8	Negative 2	7.12	7.1
9	Negative 3	7.14	7.12
10	Sample 1	7.11	7.08
11	Sample 2	7.13	7.1
12	Sample 3	7.17	7.16

Contd.,



AUTHORISED SIGNATORY
Dr. Radhashyam Giri
Technical Officer



AUTHORISED SIGNATORY
S. Udhayamalar,
Manager (Tech.)



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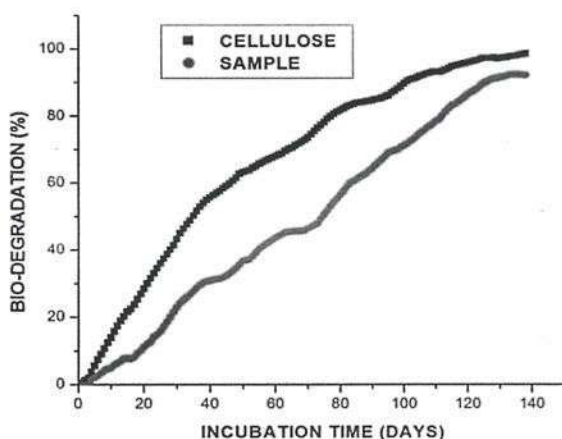
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Customer Letter No. Nil, dtd. 04/08/2025

4 Result: Percentage biodegradation relative to positive reference

Sample (Mean) : 90.4 % at the end of 138 days

The reference Material - cellulose : ~ 100%



5 Visual Observation of Sample

Description	Week 1-4	Week 5-8	Week 9-12
Structure	Cut pieces	Cut pieces	Fragmented pieces
Moisture	Adequate moisture Level	Adequate moisture Level	Adequate moisture Level
Colour	White	Dirty	Dirty
Fungal Development	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like

Description	Week 13-16	Week 17-18	Week 19-20
Structure	Fragmented pieces	Fragmented pieces	Fragmented pieces
Moisture	Adequate moisture Level	Adequate moisture Level	Adequate moisture Level
Colour	Dirty	Dirty	Dirty
Fungal Development	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like

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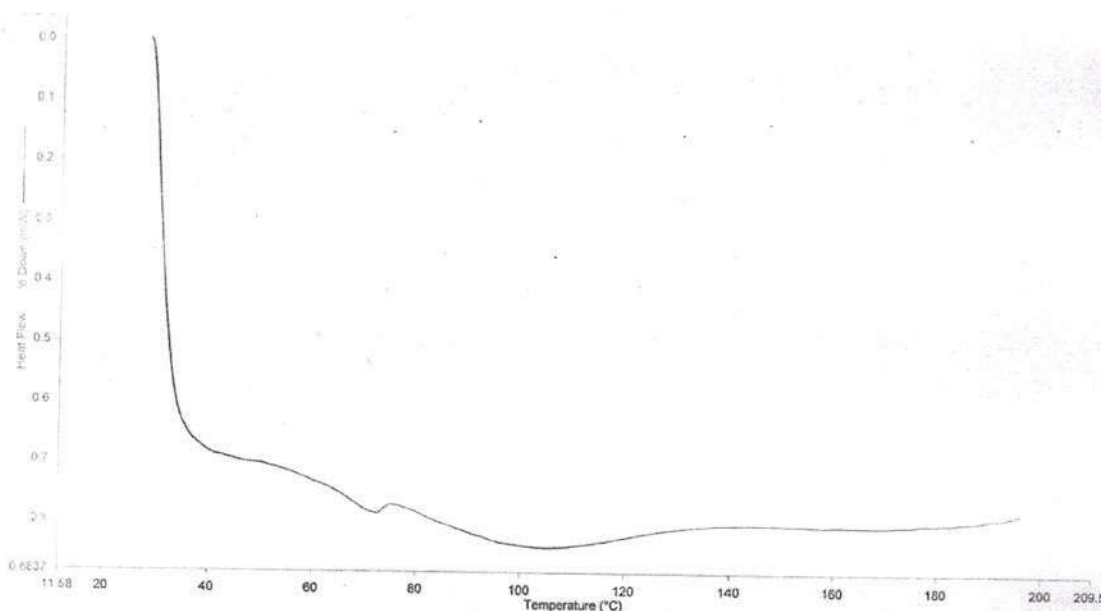
Customer Letter No. Nil, dtd. 04/08/2025

6 Visual Observation of Compost

Description	Week 1-4	Week 5-8	Week 9-12
Structure	Fine Particles	Fine Particles	Fine Particles
Moisture	Adequate moisture Level	Adequate moisture Level	Adequate moisture Level
Colour	Dark Brown	Dark Brown	Dark Brown
Fungal Development	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like

Description	Week 13-16	Week 17-18	Week 19-20
Structure	Fine Particles	Fine Particles	Fine Particles
Moisture	Adequate moisture Level	Adequate moisture Level	Adequate moisture Level
Colour	Dark Brown	Dark Brown	Dark Brown
Fungal Development	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like

7 DSC Analysis



Contd.,


AUTHORISED SIGNATORY
Dr. Radhashyam Giri
Technical Officer


AUTHORISED SIGNATORY
S. Udhayamalar,
Manager (Tech)



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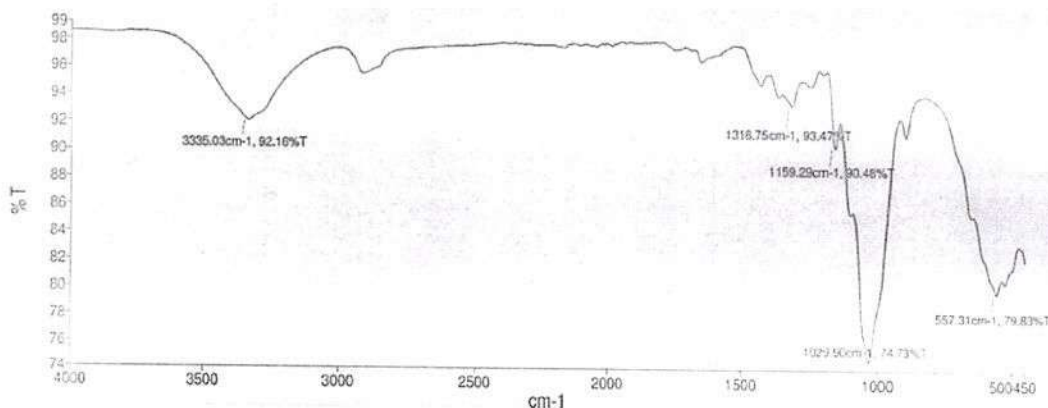
30-03-2026

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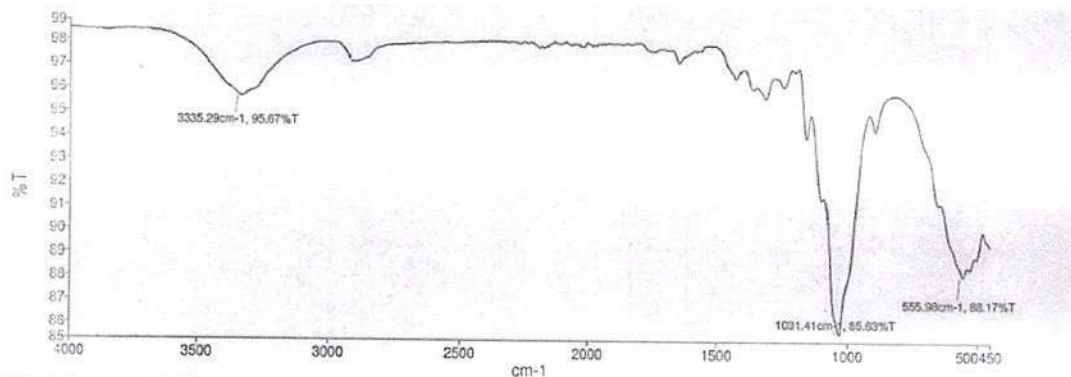
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8 FTIR Analysis

Side 1



Side 2



FTIR Interpretation

a) Side 1

b) Side 2

Wave number (cm ⁻¹)	Nature of Bond	Wave number (cm ⁻¹)	Nature of Bond
3335	O-H stretching in cellulose	3335	C-H stretch
1316	C=C stretch	1031	C-H in Plane bend
1159	C-C stretch	555	C-H bend
1029	C-O stretch		
557	C-H bend		

Comment: The above DSC & FTIR analysis indicates the above sample is Paper: Cellulose

AUTHORISED SIGNATORY

Dr. Radhashyam Giri
Technical Officer

AUTHORISED SIGNATORY

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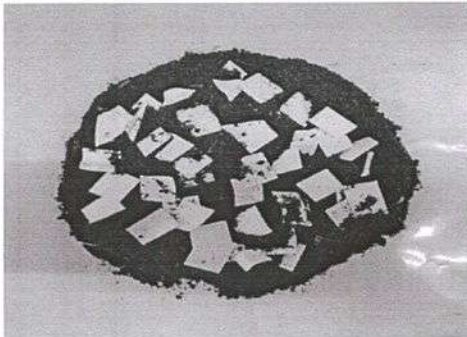
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9 Disintegration After 12 Weeks

CODE NO: 25081733



Before Disintegration

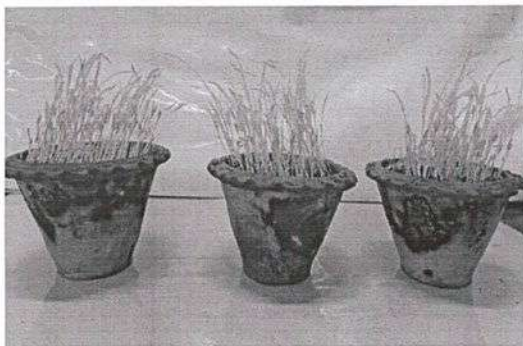
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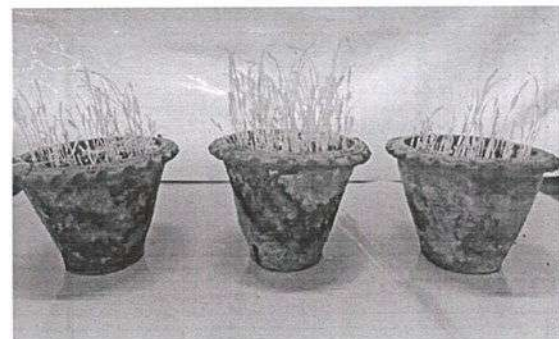
After Disintegration

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

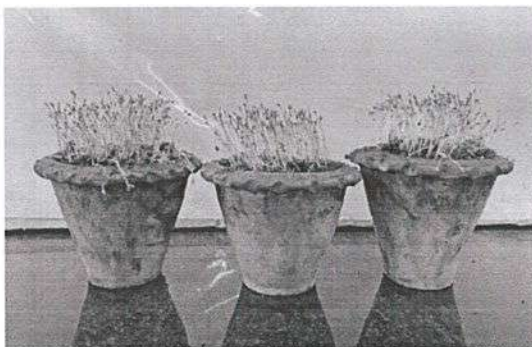
10 Plant growth study



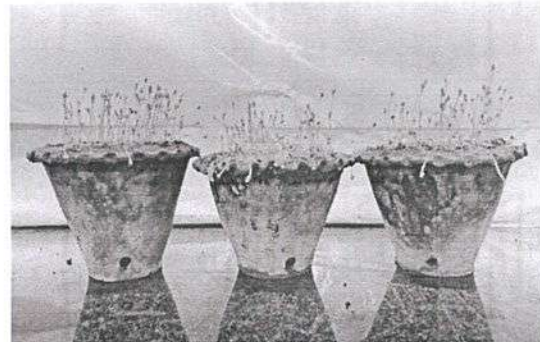
Fresh compost with Sorghum



Bio-degradation tested compost with Sorghum



Fresh compost with Cress



Bio-degradation tested compost with Cress

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

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