

सिपेट : स्कूल फार एडवांस्ड
रिसर्च इन पेट्रोकेमिकल्स (एस. ए. आर. पी)
एडवांस्ड पॉलीमर डिज़ाइन रिसर्च & डेवलपमेन्ट
रिसर्च लॉबोरेटोरी, (ए.पी.डी.डी.आर.एल)
रसायन एवं पेट्रोसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
प्लॉट नंबर : ७ पि, हार्ट टेक रक्ष और एयरोस्पेस पार्क
(आईटी सेक्टर), जलाहोवली, बेंगलुरु - 562149
ई-मेल : apddrl@cipet.gov.in
मुख्यालय : सिपेट, गिंडी, चेन्नै - 600032



**CIPET : SCHOOL FOR ADVANCED
RESEARCH IN PETROCHEMICALS (SARP)-
ADVANCED POLYMER DESIGN & DEVELOPMENT
RESEARCH LABORATORY (APDDRL)**

Dept. of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Govt. of India
Plot No. 7P. Hi Tech Defence and Aerospace Park
(IT Sector), Jala Hobli, Bengaluru - 562 149
E-mail : apddrl@cipet.gov.in
Head Office : CIPET, Guindy, Chennai - 600032

CIPET/SARP-APDDRL/Testing/2024-25/ 781

Date:-08-11-2024

To,

M/s Gen Bhoomi Green Products LLP,
Plot No.21,R.S.NO.536,Honaga Industrial Area
Honaga,Belagavi - 591156

Sub: Test Report-Reg.

Ref. No: 1) Letter dtd 23.02.2024
2) Interim report no: 24472 dated 11.09.2024

Dear Sir,

We are enclosing herewith Test Report No. 24472 (Final) dtd. 08.11.2024 pertaining to testing of your submitted sample.

Customer Feedback form is enclosed herewith, which you are requested to fill-up and send us back.

Kindly acknowledge the receipt of the same.

Thanks & Regards,


AUTHORISED SIGNATORY

Encl: As above

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बड्डी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नै, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुरथल, मैसूर, रायपुर, राँची, बलसाड एवं विजयवाडा
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CERTIFICATE OF ANALYSIS AS PER ISO 17088:2021

CIPET/SARP-APDDRL/Testing/2024-25/

Date:- 08-11-2024

To,
M/s Gen Bhoomi Green Products LLP,
Plot No.21,R.S.No.536,Honaga Industrial Area
Honaga,Belagavi - 591156

Sub: Test Report- Reg.

Ref. No: 1) Letter dtd 23.02.2024
2) Interim report no:24472 dated 11.09.2024

Dear Sir,

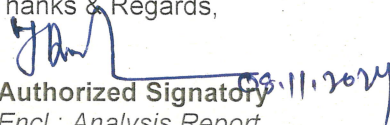
With reference to the above, the submitted sample was analyzed as per ISO 17088:2021. The summary detail of testing & analysis is given below:

Company Name & Address	:M/s Gen Bhoomi Green Products LLP, Plot No.21,R.S. No.536,Honaga Industrial Area Honaga , Belagavi -591156
Test Standard	: ISO 17088:2021
Sample Details	: " Compostable Film/ Cover " - As stated by the party
Test Report No	: 24472 (Final) & dated 08.11.2024
Date of Receipt of sample	: 23.02.2024
Date of Initiation	: 18.03.2024
Date of Completion	: 05.11.2024
Percentage of compostability	: 92.25% in 169 days
Requirement of Compostability in 180 days as ISO 17088:2021	: 90 %

The sample submitted by **M/s Gen Bhoomi Green Products LLP**, is compostable and the percentage of compostability in **169** days reported vide test report No.24472 is **92.25%**

The submitted sample also complies with the terms of Compostability, Seed germination and Disintegration as per ISO 17088:2021

Thanks & Regards,


Authorized Signatory
Encl : Analysis Report

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ANALYSIS REPORT



Page: 01 of 03
Report No: 24472 (Final)
Date: 08-11-2024

Issued to

M/s Gen Bhoomi Green Products LLP,
Plot No.21,R.S.NO.536,Honaga Industrial Area
Honaga,Belagavi - 591156

Ref. No 1) Letter dtd 23.02.2024
2) Interim report no:24472 dtd 11.09.2024

PART A: PARTICULARS OF SAMPLE SUBMITTED

- a) Name of the Sample : " Compostable Film/Cover "-
As stated by the party
b) Grade/variety/Type/Size/Class etc. : Film- as supplied by the party
c) Code No. : NA
d) Quantity (pcs./mtr/gm/nos) : 1.60 kg.
e) Mode of packing
(Sealed carton/Polypouch/Container or not): Polypouch
f) Date of receipt of sample : 23.02.2024
g) Date of Performance of test : 18.03.2024 to 05.11.2024
h) Any other information : NIL

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 as 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- : Nil

08.11.2024

08.11.2024

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ANALYSIS REPORT



Page: 02 of 03
Report no: 24472 (Final)
Date: 08-11-2024

PART-C					
Test Result					
Sl. No.	Name of test	Test Method	Unit	Test Result	Specified requirements
01	Material Identification	FTIR / DSC	--	PBAT Based material	--
02	Disintegration (Dry mass remains in 2mm sieve after 84 days)	Cl. 6.2 of ISO 17088 : 2021	%	9.1	Not more than 10
03	Ultimate aerobic Biodegradation (with reference to 100% degradation of positive reference)	Cl. 6.3 of ISO 17088 : 2021	%	92.25 (At the end of 169 days)	>90% (At the end of the test period not more than 180 days)
04	Plant Growth study Monocotyledon % Seed emergence	Cl 6.4.3 ISO 17088 : 2021	%	92.66	>90
	Dicotyledon % Seed emergence		%	91.15	>90
05	Acute Ecotoxic Effects of Earthworm				
a	Survival of adult earthworm at the end of 7 days	Cl.No.6.4.4 of ISO 17088 : 2021	%	100	Shall be more than 90
b	Survival of adult earthworm at the end of 14 days		%	98	Shall be more than 90
c	Biomass end of the 14 days		%	98	Shall be more than 90
06	Chronic ecotoxic effects to earthworm				
a	Survival of adult earthworm at the end of 28 days	Cl.No.6.4.5 of ISO 17088 : 2021	%	97	Shall be more than 90
b	Offspring at the end of 56 days		%	96	Shall be more than 90
c	Biomass end of the 56 days		%	97	Shall be more than 90

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

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ANALYSIS REPORT

Page: 03 of 03

Report No: 24472(Final)

Date: 08-11-2024

Sl. No	Name of the Test	Test Method/Standard	Unit	Specified Requirements	Results Obtained
07.	Heavy metals concentration				
	Arsenic (As)	Cl. No. 6.5.2 of ISO 17088:2021 AAS	ppm	-	0.0018
	Copper (Cu)			-	0.1560
	Nickel (Ni)			-	0.2352
	Zinc (Zn)			-	0.0092
	Chromium (Cr)			-	0.0101
	Molybdenum (Mo)			-	0.0013
	Mercury (Hg)			-	BDL
	Cadmium (Cd)			-	0.0022
	Lead (Pb)			-	0.0393
	Selenium (Se)			-	0.0043

*BDL-Below Detection Limit

Based on solid waste management Rules, 2016 notified on 8th April 2016 by Ministry of Environment and Forests, Government of India.

PART D: REMARKS: NIL

Note:

1. This Test Report / Certificate is issued only for the samples submitted to CIPET: SARP-APDDRL.
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 CIPET: SARP-APDDRL within 30 days from the date of issue.
6. Sub contracted Tests (if any): NIL

** End of the Report **

Reviewed By
Dr. V H Sangeetha
Scientist

Authorized By
Dr. Manoranjan Biswal
Sr. Scientist

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बद्दी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नै, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुखल, मैसूर, रायपुर, राँची, बलसाड एवं विजयवाडा
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OBSERVATION FOR BIODEGRADABILITY TEST AS PER ISO 17088:2021

To,

M/s Gen Bhoomi Green Products LLP,
Plot No.21,R.S.NO.536,Honaga Industrial Area
Honaga,Belagavi - 591156

Date of Initiation : 18.03.2024
Date of Completion : 05.11.2024

1. Sample detail : " Compostable Film/Cover""

- As stated by the party

2. Material Identification by DSC & FTIR : DSC & FTIR graph indicates that the supplied material is PBAT Based material.

3. Observation: -

a. Conditions of reaction mixtures

Origin of compost: : Livestock excreta, municipality waste and vegetable waste
Reaction Temperature : 58 °C (± 2°C)
Dry Solid : 52.07(%)
Volatile Solid : 30.16 (%)
Test duration : 169 days (Under compost condition)
Reference material : Cellulose
Volume of reaction vessel : 3000 ml

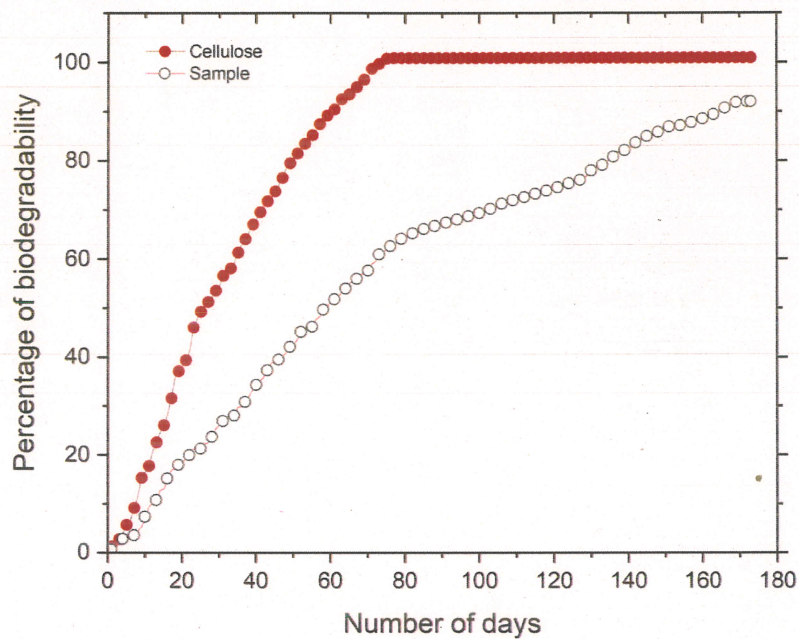
b. pH of test medium:-

Composting Vessel	pH (Before Test)	pH (After Test)
Blank 1	7.1	7.2
Blank 2	7.2	7.3
Blank 3	7.2	7.3
Cellulose1	7.3	7.4
Cellulose2	7.4	7.5
Cellulose3	7.4	7.5
Negative 1	7.2	7.4
Negative 2	7.4	7.5
Negative3	7.2	7.3
Sample 1	7.6	7.7
Sample 2	7.5	7.6
Sample 3	7.5	7.6

Reviewed By
Dr. V H Sangeetha
Scientist

Authorized By
Dr. Manoranjan Biswal
Sr. Scientist

4. Result: Percentage biodegradation relative to positive reference
MEAN (%) : 92.25
The reference material-cellulose (%) : 100



5. Visual Observation:-

	Week 1	Week 2	Week 3	Week 4	Week 5
Structure	Film sample	Film sample	Film sample	Film sample	Film sample
Moisture	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level
Color	White	White	White	White	White
Fungal Development	None	None	None	None	None
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

Reviewed By
Dr. V H Sangeetha
Scientist

Authorized By
Dr. Manoranjan Biswal
Sr. Scientist

TR.NO. – 24472 (Final)

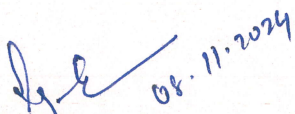
ANALYSIS RESULT

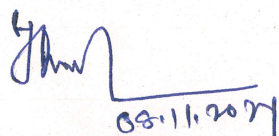
	Week 6	Week 7	Week 8	Week 9	Week 10
Structure	Film sample	Film sample	Film sample	Film sample	Film sample
Moisture	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level
Color	-----	-----	-----	-----	-----
Fungal Development	None	None	None	None	None
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

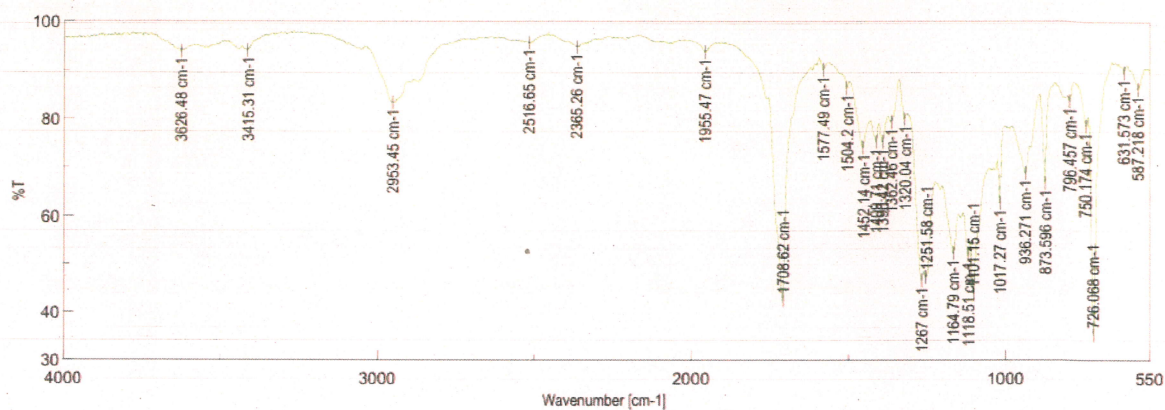
	Week 11	Week 12	Week 13	Week 14	Week 15
Structure	Disintegration initiated	Disintegration Observed	Disintegration Observed	Disintegration Observed	Disintegration Observed
Moisture	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level
Color	-----	-----	-----	-----	-----
Fungal Development	None	None	None	None	None
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

	Week 16	Week 17	Week 18	Week 19	Week 20
Structure	Disintegration Observed	Disintegration Observed	Disintegration Observed	Disintegration Observed	Disintegration Observed
Moisture	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level
Color	-----	-----	-----	-----	-----
Fungal Development	None	None	None	None	None
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

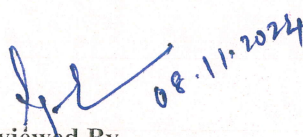
	Week 21	Week 22	Week 23	Week 24	Week 25/26
Structure	Disintegration Observed	Disintegration Observed	Disintegration Observed	Disintegration Observed	-----
Moisture	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level	Appropriate moisture level
Color	-----	-----	-----	-----	-----
Fungal Development	None	None	None	None	None
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

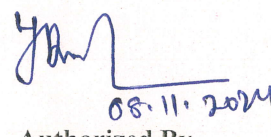

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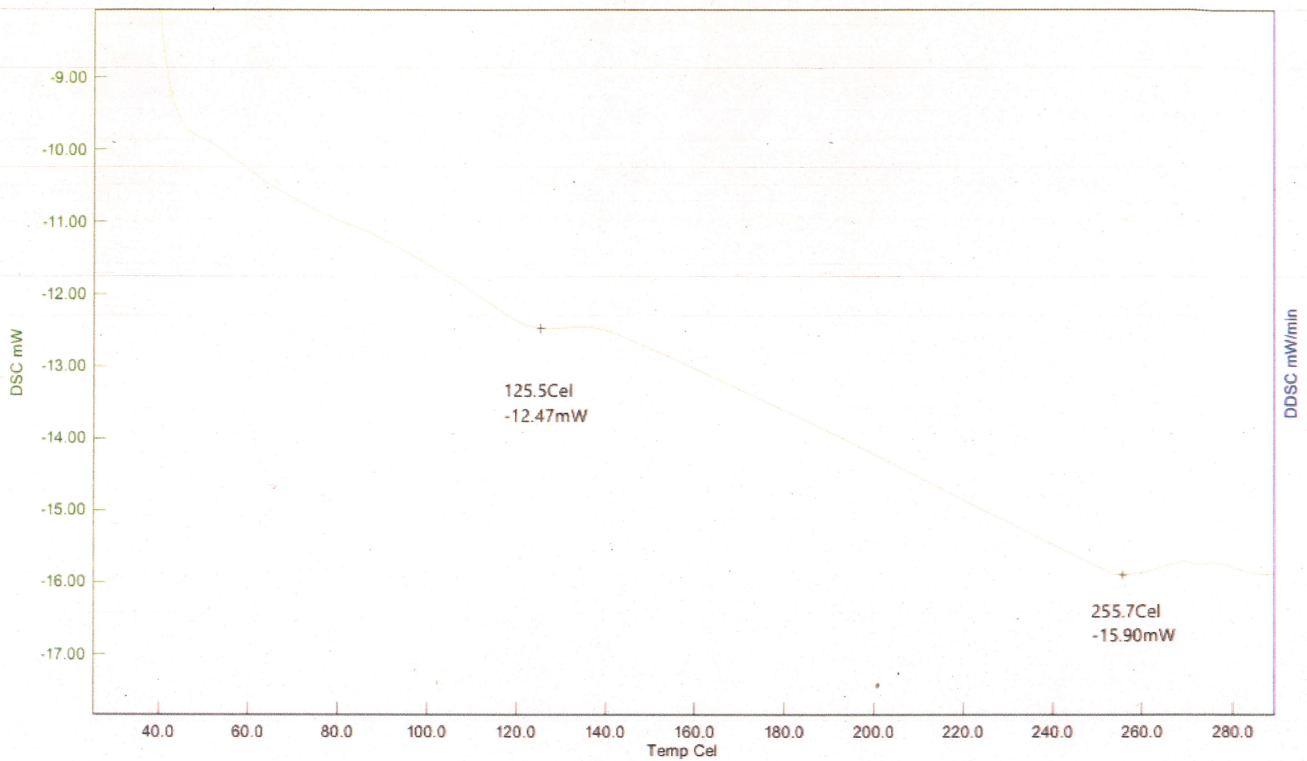

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6. FTIR Analysis:

Wave number (cm ⁻¹)	Possible Nature of Bond
2953.45	CH ₃ stretching mode
1708.62	C=O stretching
1452.14	CH ₂ In-plane bending mode
1390.42	Out – Plane bending mode of CH ₂
1267,1101.15,1164.79	-C-O stretching
1017.27	In-plane bending Mode of =CH in benzene ring
873.596,726.068	Out-plane bending mode of =CH in benzene ring


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7. DSC Analysis:-

Comment: DSC & FTIR graph indicates that the supplied material is PBAT Based material.

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8. Disintegration- After 12 Weeks

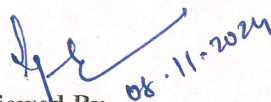
BEFORE DISINTEGRATION
240303AFTER DISINTEGRATION
240303

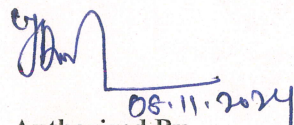
BEFORE DISINTEGRATION

AFTER DISINTEGRATION

Comments:-

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


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9. Germination and Plant Growth Study(240303)



Wheat Compost (Control)



Wheat Compost (Sample)

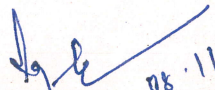


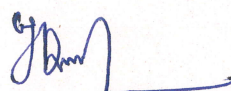
Mung Bean Compost (Control)



Mung Bean Compost (Sample)

The percentage of seedling germination rate was found to be greater than 90% for both Wheat and Mung Bean.


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