

केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान (सिपेट)
सिपेट : पेट्रोसायन प्रौद्योगिकी संस्थान
(आईपीटी)

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)
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INTERIM REPORT

CIPET/AHMEDABAD-IR/ SHREE BIOGREEN /TR No.2708

Date: 27.03.2026

Name & Address of the party – M/S SHREE BIOGREEN

Plot No: MSME-547, Sanand II, Industrial Estate,
GIDC Sanand-382110,
Tal: Sanand, Dist: Ahmedabad.

Date of Receipt of sample: 09.09.2025

Date of Initiation of testing: 14.11.2025

Sample details (as declared by the party): Compostable film

Sl. No.	Property	Test method / Standard	Unit	Results obtained	Specified Requirements
1.	Material Identification	FTIR (ASTM E 1252) DSC (ASTM D 3418)	--	PBAT (Poly butylene Adipate co- terephthalate)	--
2.	Disintegration (Dry mass remains in 2 mm sieve after 84 days)	Cl. 6.2 of ISO 17088-2012/ IS 17088-2008	%	8.4	Not more than 10%
3.	Ultimate Aerobic Biodegradation (with reference to 100% degradation of positive reference)	Cl. 6.3 of ISO 17088-2021/IS 17088-2008	%	(91.06 % At the end of 132 days)	> 90% (At the end of test period not more than 180 days)

Comments: The submitted sample of **Compostable film** (as stated by the party) complies to the requirements of Cl. 6.2 & 6.3 of ISO 17088-2021/ ISO 17088-2012

- Maximum Thickness of submitted sample: 34 micron
- Filler content of the submitted sample: 38.5 %

Note:

The submitted sample is exposed under controlled compost condition as per ISO 14855-1 and at the end of 132 **days**, the cumulative biodegradation is estimated as **91.06%** with reference to the degradation of cellulose

- The following tests are under progress as per the standard IS/ISO 17088-2008.
 - Heavy metal analysis as per Cl. No. 6.4.1.
 - Seed germination as per Cl. No. 6.4.4.
 - Acute earthworm toxicity test as per Cl. No.6.4.4 ISO 17088-2021
 - Chronic earthworm toxicity test as per Cl. No.6.4.5 ISO 17088-2021
- The test report will be issued after the completion of all the tests.
- The interim report is only valid till the issue of test report.

Authorised Signatory

Authorised Signatory

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