

**सिपेट : इंस्टिट्यूट ऑफ़ पेट्रोकेमिकल्स
टेक्नोलॉजी (आईपीटी)**

(पूर्व में सेन्ट्रल इंस्टिट्यूट ऑफ़ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी)

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INTERIM REPORT

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CIPET/AHMEDABAD-IR/ SUPER GREEN INDUSTRIES /TR No. 1685

Date:01.11.2023

Name & Address of the party: **SUPER GREEN INDUSTRIES**

Shed No.13, Reliable Compound, Dilip

Nagar, Ratlam, M.P.- 457001

Date of Receipt of sample: 30.06.2023

Date of Initiation of testing: 15.07.2023

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)	--	Blends of Poly Lactic Acid (PLA)/Polybutylene Adipate co- terephthalate (PBAT)	--
2.	Disintegration (Dry mass remains in 2 mm sieve after 84 days)	Cl. 6.2 of ISO 17088-2021/ IS 17088-2008	%	9.2	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	%	92.86 (At the end of 110 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.

Note: The submitted sample is exposed under controlled compost condition as per 17088-2021/ ISO 14855-1 and at the of **110 days**, the cumulative biodegradation is estimated as **92.86 %** 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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केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बदी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चैन्ने, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, लखनऊ, मदुरै, मुरथल, मैसूरु, रायपुर, राँची, वलसाड एवं विजयवाड़ा

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