

सिपेट : पेट्रोकेमिकल्स तकनीकी संस्थान (आईपीटी)

(पूर्व में सेंट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी)
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CIPET सिपेट
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Date: 24.03.2021

Name & Address of the Party

: **M/s. HI-TECH INTERNATIONAL,
Near Airport, Sahnewal, Ludhiana 141010.**

Sample details (as declared by the party)

: Dr Bio Compostable Polymer & Film

Date of initiation of aerobic biodegradation

: 06.11.2020

Date of completion

: 18.03.2021

Sl. No.	Property	Test method / Standard	Unit	Results obtained	Specified Requirements
1.	Material Identification	FTIR / DSC	--	Blend of Poly Lactic Acid (PLA) and Poly Butylene Adipate Co-Terephthalate (PBAT) with Starch	--
2.	Disintegration (Dry mass remains in 2mm sieve after 84 days)	Cl. 6.2 of ISO 17088-2012 / IS 17088 - 2012	%	8.2	Not more than 10%
3.	Ultimate Aerobic Biodegradation (with reference to 100% degradation of positive reference)	Cl. 6.3 of ISO 17088-2012 / IS 17088 - 2012	%	90.04 (At the end of 133 days)	> 90% (At the end of the test period not more than 180 days)

Comments: The submitted sample of Dr Bio Compostable Polymer & Film (as stated by party) complies to the requirements of cl. 6.2 & 6.3 of ISO 17088-2012 / IS 17088-2012.

Note:

1. The submitted sample is exposed under controlled compost condition as per ISO 14855-1 and at the end of 133 days, the cumulative biodegradation is estimated as 90.04% with reference to the degradation of the cellulose.
2. The following tests are under progress as per the standard ISO 17088-2012 / IS 17088 - 2012.
 - a. Heavy metal analysis as per Cl. no. 6.4.1.
 - b. Seed germination as per Cl. no. 6.4.4.
3. The Test Report will be issued after the completion of all the tests.
4. The interim report is only valid till the issue of Test report.


Authorized Signatory


Authorized Signatory

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

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगर्तला, बदी, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नई, देहरादून, गुरुग्राम, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, कोरबा, लखनऊ, मदुरै, मुरथल, मैसूरु, रायपुर, राँची, वलसाड, वाराणसी एवं विजयवाड़ा
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