

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

(पूर्व में सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नोलॉजी)
रसायन एवं पेट्रोसायन विभाग
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
गिण्डी, चेन्नै - 600 032.
फोन : 91-44-2225 4701 (6 लाइन)
फैक्स : 91-44-22254707
ई-मेल : chennai@cipet.gov.in
वेबसाइट : www.cipet.gov.in



CIPET सिपेट
probe - perform - practice - Plastics



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

(Formerly Central Institute of Plastics Engineering & Technology)

Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

Guindy, Chennai - 600 032.

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CIPET:IPT/CHN/PTC/ 2023-24/23050580

16.10.2023

To

M/s. K-INNOVATIVE HUB PVT LTD,
Sy No. 44-617/1-2, IDA Nacharam, Nacharam, Uppal
(M), Medchal - Malkajgiri, Telangana - 500076.

Dear Sir/Madam,

Sub: Interim Test Report – Reg.

With reference to the above cited subject, please find the enclosed Interim Report dated
16.10.2023

Thanking you,

With Regards,

AUTHORISED SIGNATORY

(Encl. as above)

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

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, 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
Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Gurugram, Guwahati, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad, Varanasi & Vijayawada

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INTERIM REPORT

CIPET/CHN-IR/K-I/TR.No:75309

Date: 16.10.2023

Name & Address of the Party : **M/s. K-INNOVATIVE HUB PVT LTD,
Sy No. 44-617/1-2, IDA Nacharam, Nacharam, Uppal (M),
Medchal - Malkajgiri, Telangana - 500076.**

Sample details (as declared by the party) : Biodegradable Film
Date of receipt of sample : 18.05.2023
Date of initiation of aerobic biodegradation : 23.05.2023
Date of completion : 11.10.2023

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)	--
2.	Disintegration (Dry mass remains in 2mm sieve after 84 days)	Cl. 6.2 of ISO 17088-2021	%	6.9	Not more than 10%
3.	Ultimate Aerobic Biodegradation (with reference to 100% degradation of positive reference)	Cl. 6.3 of ISO 17088-2021	%	91.5 (At the end of 141 days)	> 90% (At the end of the test period not more than 180 days)

Comments: The submitted sample of Biodegradable Film (as stated by party) complies to the requirements of cl. 6.2 & 6.3 of ISO 17088-2021.

Note:

- The submitted sample is exposed under controlled compost condition as per ISO 14855-1 and at the end of 141 days, the cumulative biodegradation is estimated as 91.5% with reference to the degradation of the cellulose.
- The following tests are under progress as per the standard ISO 17088-2021.
 - Heavy metal analysis as per Cl. no. 6.5.1.
 - Seed germination as per Cl. no. 6.4.3.
 - Acute earthworm toxicity test as per Cl. no.6.4.4.
 - Chronic earthworm toxicity test as per Cl. no.6.4.5
- 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.

Authorized Signatory

Authorized Signatory

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