

केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान (सिपेट)

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

कौशल एवं तकनीकी सहायता केन्द्र (सी.एस.टी.एस.)

रसायन और पेट्रोसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

सरवे नं-३७७, सूरमपल्ली (वि), गन्नावरम (म)

विजयवाड़ा - ५२१ २१२, कृष्णा जिला

फोन : 0866 - 2951466.

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ई-मेल : vijayawada@cipet.gov.in

मुख्यालय : गिन्डी, चेन्नई - 600 032.



सिपेट CIPET



CENTRAL INSTITUTE OF PETROCHEMICALS
ENGINEERING & TECHNOLOGY (CIPET)

(Formerly Central Institute of Plastics Engineering & Technology)

CENTRE FOR SKILLING & TECHNICAL SUPPORT (CSTS)

Department of Chemicals & Petrochemicals

Ministry of Chemicals & Fertilizers, Govt. of India

Survey No. 377, Surampalli (V), Gannavaram (M),

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Phone : 0866 - 2951466

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E-mail : vijayawada@cipet.gov.in

Head Office : Guindy, Chennai - 600 032.

Date: 08.11.2024

CIPET/VIJAYAWADA/PTC/ 2024-25/ 271

To.

M/s.Vardhans Green Bags,
Plot.No.154/A7, Reddys Lab,
CTO-1 Road, IDA Bolloram,
Hyderabad, Telangana 502325

Sub: Interim Report – Reg

Ref: Letter No. Nil Dated. 22.04.2024

Dear Sir,

With reference to the above cited subject, we are enclosing herewith the Test Report No. 003631
Dated 08.11.2024

Thanking you and assuring our best services at all times.

Yours Sincerely,

Dr. Ch. Shekar
Director & Head

Encl: As above.

केंद्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बर्ही, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नै, देहरादून, दिल्ली, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, लखनऊ, मदुरै, मुरथल, मैसूर, रायपुर, राँची, वलसाड, वाराणसी एवं विजयवाड़ा
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INTERIM REPORT

CIPET/CSTS: Vijayawada/IR-BDR/ TR No.3631

Date: 08.11.2024

Name & Address of the party: M/s.Vardhans Green Bags,
Plot.No.154/A7, Reddys Lab,
CTO-1 Road, IDA Bolloram,
Hyderabad, Telangana 502325

Sample Details: Biodegradable and Compostable Bio films (as declared by the party)

Date of Receipt sample : 15/05/2024

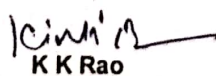
Date of performance of test : 07/06/2024 to 08/11/2024

Sl.No	Property	Testing Method Standard	Unit	Result Obtained	Specified Requirement
1	Material Identification	FTIR/DSC	-	Poly(butylene adipate-co- terephthalate) (PBAT)	-
2	Disintegration (Dry mass remains in 2mm sieve after 84 days)	CI.6.2 of IS/ISO 17088-2021	%	9.14	Not more than 10% of its original dry mass
3	Ultimate aerobic biodegradation (with reference to 100% degradation of positive reference)	CI.6.3 of IS/ISO 17088-2021/ ISO:14855-1	%	90.24	>90% (At the end of the test period not more than 180 days)

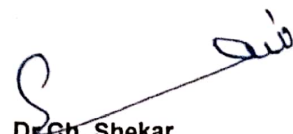
Comments: The submitted Biodegradable and compostable Bio film (as stated by the party)
complies with the requirements of CI.6.2 & 6.3 of ISO 17088-2021

Note:

- The submitted sample is exposed under controlled compost condition as per ISO 14855-1 and at the end of 154 days, the cumulative biodegradation is estimated as 90.24% with reference to the degradation of the cellulose(positive reference)
- The following tests are under progress as per the standard ISO 17088-2021
 - Plant growth test as per CI.6.4.3
 - Earthworm toxicity test as per CI.6.4.4 and 6.4.5
 - Heavy metal analysis as per CI.6.5.2
- 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.


K K Rao

Reviewed By / Authorized Signatory


Dr. Gh. Shekar

Authorized Signatory

केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बही, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चन्द्रपुर, चेन्नै, देहरादून, दिल्ली, गुवाहाटी, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्चि, लखनऊ, मदुरै, मुरथल, मैसूरु, रायपुर, राँची, वलसाड, वाराणसी एवं विजयवाड़ा
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