



GUJARAT POLLUTION CONTROL BOARD

REGIONAL OFFICE : AHMEDABAD (RURAL)

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Nr. Zydlus Research Center,
Sarkhej-Bavla N.H No-BA, ffioraiya-382213
Ta: Sanand, Dist: Ahmedabad.
Website : www.gpcb.gov.in
Email: ID :
gpcbroadlian@gmail.com
Ph. No. : (079) 232 57071

NO: GPCB/RO-ABD(RURAL) /4S //r U»k 1167

DATE: 15 /12 /2022

By R.P.A.D.

REGISTRATION FOR PRODUCERS or BRAND OWNERS

UNDER RULE 13(2) OF PLASTIC WASTE MANAGEMENT RULES, 2016

No: GPCB/RO-ABD (RURAL) /GEN-2634/ ID-73241/y

To,
Eco Bio Polimers
Godown No. 128, Joshi Estate-51,
Block No. 199,B/H. Bharday Hotel, Nr, Ramchi
Oil Mill, Sarkhej-Bawl, Changodar,
Dist: Ahmedabad

1. The Registration number. GPCB/PWMR/ABDR/2021/01 Date of issue: 15/12/2022
Ref: 1.B.P. No. 10 dated 02.08.2016 and B.P. No. 713 dated 28.11.2017
2.Unit's application No. 69458127 dated 19.09.2022
3.IR.No: F.1028GMP/GS/AE (M)/GMP/2022 dated 27/07/2022
1. 4.Minutes of 66th DLCCC meeting held on 28.04.2022 (Item No.75-09)
2. In accordance with the provision of Rules 13(3) of The Plastic Waste Management Rules. 2016, registration granted to Mls. Eco Bio Polimers No.18, Joshi Estate-5, Block No. 193, B/H. Bhagyoday Hotel, Nr, Siddhi Oil Mill, Sarkhej-Bawl, Changodar, Dist: Ahmedabad for the following activity;

Sr. No.	Activity	Quantity (MT/M)
1.	(Eco Bio Polymers) 100 % Compostable Bio Shopping Bag/Garbage Bag, Bio Film for Packing & Bio Bag for Packing	Up - TS TE

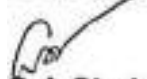
3. Specific Conditions:-

- This Registration is valid for Tested lab as per the protocols of the Indian law
- Carry bags/film made from compostable material or plastics shall conform to the Indian Standard: IS:17088 (as amended from time to time) titled as 'Specifications for Gompostable Plastics'.
- Each carry bag/film made from compostable plastics shall have the following information **printed In English** namely:- Name, registration number issued by SPCB, certificate number issued buy CPCB and shall bear a label "Compostable".

Clean Gujarat Green Gujarat

- Unit shall comply with Standard Operating Procedure (SOP) issued by CPCB and shall obtain the Certificate for Manufacturing/selling of Compostable plastic containers/bags from CPCB.
- Unit shall provide six-monthly report giving details of raw material procurement and product sale to SPCB. Determination of the degree of degradability and degree of disintegration of plastic material shall be as per the protocols of the Indian Standards ISISO: 17088 (as amended time to time).
- Unit shall comply with provisions of PWM Rules/ Guidelines issued from time to time by the Ministry of Environment, Forest & Climate Change or Central Pollution Control Board.
- If the unit is found non-complying with the provisions of the PWM Rules and amended thereof, the registration shall be revoked, suspended or cancelled

For and on behalf of
Gujarat Pollution Control Board


C.A. Shah

Copy to : GPCB HO. Unit Head of Environment Plastic
information

Category of the Industries : GREEN

Regional Officer
Ahmedabad Rural



**सिपेट - कौशल एवम् तकनीकी
सहायता केन्द्र (सी.एस.टी.एस)**

रसायन एवं पेट्रोरसायन विभाग,
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
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वेबसाइट : www.cipet.gov.in
मुख्यालय : सिपेट, गिण्डी, चैन्नई-600 032



**CIPET - CENTRE FOR SKILLING AND
TECHNICAL SUPPORT (CSTS)**

Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
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Head Office : CIPET, Guindy, Chennai-600 032

ANALYSIS RESULT

TEST REPORT NO. : 1655

Dated : 09.12.2022

(Revised)

10. ACUTE EXOTOXIC EFFECTS TO EARTHWORM: (Species of earthworm *Eisenia fetida*)



Survival of adult earthworm at the end of 7 days



Survival of adult earthworm at the end of 14 days

11. CHRONIC EXOTOXIC EFFECTS TO EARTHWORM: (Species of earthworm *Eisenia fetida*)



Survival of adult earthworm at
the end of 28 days



Survival of adult earthworm at the
end of 56 days



Offspring at the end of 56 days

Dr. Bishnu Prasad Panda (Manager-Technical)
AUTHORIZED SIGNATORY



Sanjay Choudhry (Director & Head)
AUTHORIZED SIGNATORY

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9. DISINTEGRATION- AFTER 17 WEEKS

	
Blank -01 Blank -02 Blank -03 XXXX Compost (Control)	Sample-01 Sample-02 Sample-03 XXXX Compost (Sample)
	
Blank-01 Blank-02 Blank-03 XXXXX Compost (Control)	Sample-01 Sample-02 Sample-03 XXXXX Compost (Sample)

The percentage of seed germination rate is found to be greater than 90% for both **Monocotyledon** and **Dicotyledon**.

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केन्द्र : अहमदाबाद, अमृतसर, औरंगाबाद, अगरतला, बर्ही, बालासोर, बेंगलुरु, भोपाल, भुवनेश्वर, चेन्नई, चैन्नई, देहरादून, गुवाहाटी, गुलबर्गा, ग्वालियर, हैदराबाद, हाजीपुर, हल्दिया, इम्फाल, जयपुर, कोच्ची, कोरबा, लखनऊ, मदुरै, मुरधल, मैसूर, रायपुर, राँची, बलसाड, वाराणसी एवं विजयवाड़ा
Centres : Ahmedabad, Amritsar, Aurangabad, Agartala, Baddi, Balasore, Bengaluru, Bhopal, Bhubaneswar, Chandrapur, Chennai, Dehradun, Guwahati, Gurugram, Gwalior, Hyderabad, Hajipur, Haldia, Imphal, Jaipur, Kochi, Korba, Lucknow, Madurai, Murthal, Mysuru, Raipur, Ranchi, Valsad, Varanasi & Vijayawada

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8. DISINTEGRATION- AFTER 17 WEEKS



BEFORE DISINTEGRATION



AFTER DISINTEGRATION

The disintegration of the supplied sample by passing through 2 mm sieve after 17 week in composting condition as per ISO 17088-2021 was found not more than 10% of original dry mass remain.

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रसायन एवं पेट्रोरसायन विभाग,
रसायन एवं उर्ध्वरेख मंत्रालय, भारत सरकार
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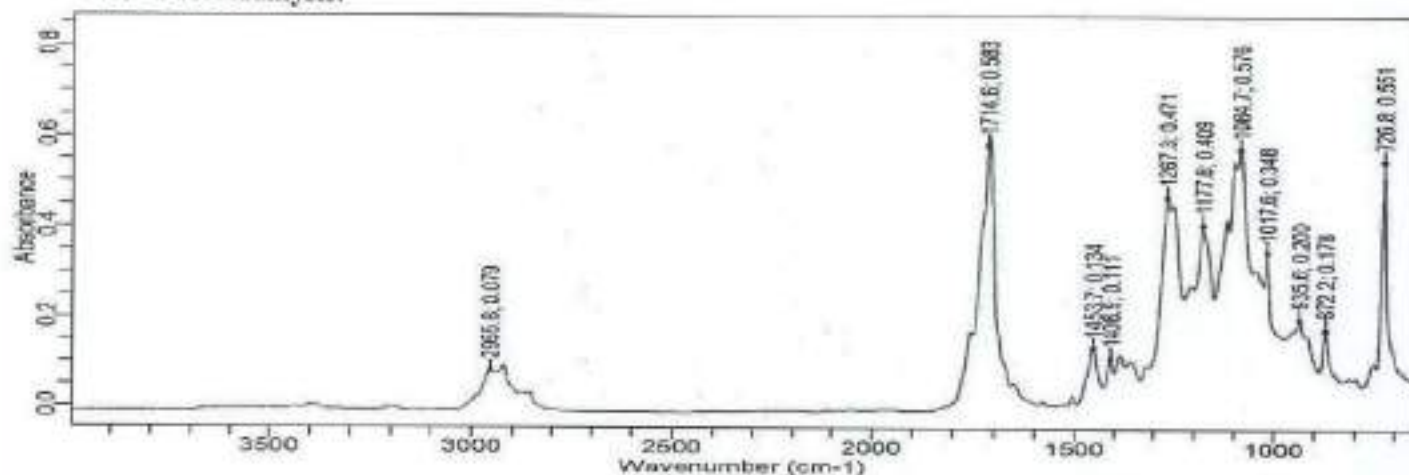
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6. FTIR Analysis:



Wave number (cm ⁻¹)	Nature of Bond
2955.8	C – H Stretching Vibrations
1714.6	C = O Stretching Vibrations
1408.9	C – H Bending Vibrations
1177.8	C – O Bending Vibrations
1017.6	C - O Stretching Vibrations

7. DSC Analysis:



Comment: The above DSC & FTIR analysis indicates the above sample is PLA(Poly lactic Acid) & PBAT (Poly Butylene Adipate Terephthalate)

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