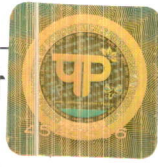


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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

श्रृंखला:ए / Series : **ANALYSIS REPORT** परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / S.L. No. **12003**

को जारी / Issued to M/s. GREEN MANEUVER INDUSTRIES LLP

Factory Address: F 972 A, Road No.14, Near Bharat Gas
Godam.VK1 Area, Jaipur-302013,Rajasthan.

Regd. Address: A33, 3rd Floor,Vishal Tower,Nr.Nupur
Tower, Nest Bungalows, Anand Nagar, Ahmedabad,
Gujarat-380015

रिपोर्ट सं / Test Report No : 989

दिनांक / Dated : 28.12.2022

संदर्भ / Your Ref. No. : NIL

दिनांक / Dated : 13.05.2022

As per part C

मानक के अनुसार टेस्ट रिपोर्ट
Test Report as per Standard :

PART A

ULR No. TC81642100004878P

PARTICULARS OF SAMPLE SUBMITTED

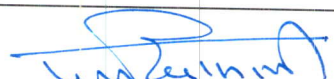
- a) Name of the sample(as stated by the party) : Compostable Film
b) Grade/Variety/Type/Size/Class etc. : ---
c) Code No. : ---
d) Quantity (pcs/mtr/gm/nos) : 2.5 kg.
e) Mode of packing : In Bag
(Sealed carton/poly pouch/container or not)
f) Date of receipt of sample : 13.05.2022
g) Date of Performance of test : 17.06.2022
h) Any other information : ---

PART B

SUPPLEMENTARY INFORMATION

- a) Reference to sampling procedure : Drawn & supplied by the party
b) Supporting documents for Measurements : As per Part C
Taken and results derived like graphs,
Tables, sketches and/or Photographs as
appropriate to test report if any (to be attached)
c) Deviation from the test methods as : Not Applicable
Prescribed in relevant ASTM/ISO/BIS/
Work instructions, if any

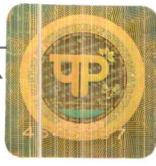

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P.P. Diwasali
(Manager TS)

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ANALYSIS REPORT

Report No.: 989

Date : 28.12.2022

PART C
TEST RESULTS

Sr. No.	Name of the Test	Test Method/Standard	Unit	Results obtained	Specified Requirements
Sample Details : : COMPOSTABLE FILM (As stated by the party)					
1.	Material Identification	FTIR/DSC	--	Blends of PLA & PBAT	-----
2.	Disintegration(Dry mass passing through 2 mm sieve after 84 days)	IS 17088:2008	%	9.2	Not more than 10%
3.	Ultimate aerobic Biodegradation (with reference to 100% degradation of positive reference)	IS 17088:2008	%	92.52	>90 (At the end of the test period not more than 180 days)
4.	Plant growth study Monocotyledon(Rice) % Seed emergence	IS 17088:2008	%	95.0	>90
	Dicotyledon(tomato) % Seed emergence		%	92.5	>90

Note: The detailed observation on biodegradability test is enclosed as Annexure -I


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P.P. Diwasali
(Manager TS)

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Date : 28.12.2022

PART C
TEST RESULTS

Sr. no.	Name of the Test	Test Method/Standard	Unit	Results obtained	Specified requirements
5	Heavy metals concentrations # Arsenic (As) Copper (Cu) Nickel (Ni) Zinc (Zn) Cobalt (Co) Chromium (Cr) Molybdenum (Mo) Mercury (Hg) Cadmium (Cd) Lead (Pb) Selenium (Se)	IS 17088:2008	Mg/l	B.L.Q(Q.L=0.05) 0.62 B.L.Q(Q.L=0.05) 0.33 B.L.Q(Q.L=0.05) 0.071 B.L.Q(Q.L=0.05) B.L.Q(Q.L=0.05) B.L.Q(Q.L=0.05) 0.72 B.L.Q(Q.L=0.05)	20 500 100 2500 ---- 300 ---- 10 20 500 -----

*Based on Municipal waste (Management and Handling) Rules, 1999 notified on 27th September, 1999 by Ministry of Environment and Forests, Government of India. Note that Concentration of Metals like Cobalt, Molybdenum, and Selenium is not mentioned in the notification.

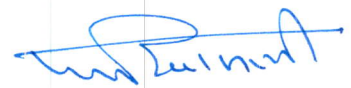
PART D

REMARKS : Nil

Note :

1. This Test Report / Certificate is issued only for the samples submitted to the laboratory.
2. The results stated above related only to the items tested.
3. The quality of the subsequent production lot has to be ensured by the purchaser.
4. This Test Report shall not be reproduced except in full without the written approval of the laboratory.
5. Any anomaly/ discrepancy in this report should be brought to the notice of the laboratory within 30 days from the date of issue.
6. Subcontracted Tests (if any): # Gujarat Laboratory

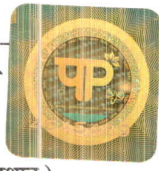

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P.P. Diwasali
(Manager TS)

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ANALYSIS REPORT

Report No.: 989

Date : 28.12.2022

Annexure-I

OBSERVATION FOR BIODEGRADABILITY TEST AS PER IS /ISO 17088:2008

Customers Details:

Name of the Party :- M/s. GREEN MANEUVER INDUSTRIES LLP

1. Sample Details : COMPOSTABLE FILM (As declared by the party)

2. Material Identification by FTIR & DSC: Blends of Polylactic Acid (PLA)/
Polybutyleneadipate co-terephthalate (PBAT)

3. Observation:-

a) Conditions of reaction mixtures

Origin of Compost	: Livestock excreta, municipal and vegetable waste
Reaction Temperature	: 58° (±2°C)
Dry Solid	: 53.77 %
Volatile Solid	: 38.1 %
Co ₂ evolved during 1 st 10 days in blank vessels	: 54.92 mg/g of volatile solids of compost
Test Duration	: 133 Days.
Reference Material	: Cellulose.
Volume of reaction vessel	: 3000ml.

b) pH of Test medium

Sl. No.	Composting Vessel	pH (before test)	pH (after test)
1	Blank 1	7.1	7.9
2	Blank 2	7.5	8.1
3	Blank 3	8.0	8.2
4	Cellulose 1	7.6	8.5
5	Cellulose 2	8.1	7.5
6	Cellulose 3	7.5	7.4
7	Negative 1	8.3	7.8
8	Negative 2	8.1	7.3
9	Negative 3	8.0	8.2
10	Sample 1	8.5	8.4
11	Sample 2	8.1	7.8
12	Sample 3	8.2	7.4

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(Manager TS)

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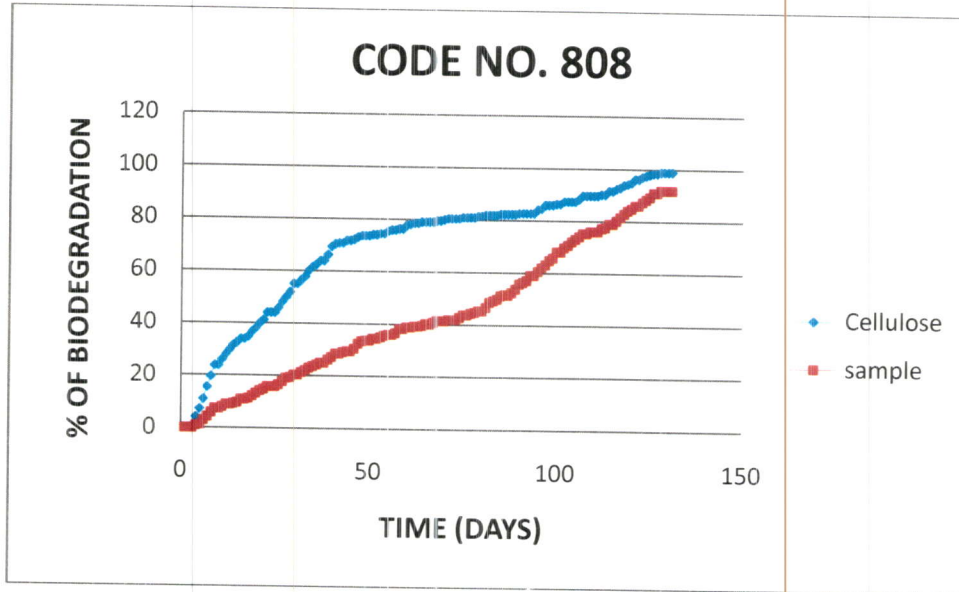
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4. Result : Percentage biodegradation relative to positive reference

MEAN (%) : 92.52 %

The reference material- Cellulose (%) : 100%




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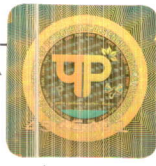
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(Manager TS)

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5. Visual Observation of Sample

Description	Week 1	Week 5	Week 10	Week 16	Week 19
Structure	Film sample	Film sample	Film sample	Film sample	Film sample
Moisture	Adequate Moisture level	Adequate Moisture level	Adequate Moisture level	Adequate Moisture level	Adequate Moisture level
Colour	Milky white	Milky white	Milky white	Faded white	---
Fungal Development	Nil	Nil	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like

6. Visual Observation of Compost

Description	Week 1	Week 5	Week 10	Week 16	Week 19
Structure	Fine Particles	Fine Particles	Fine Particles	Fine Particles	Fine Particles
Moisture	Adequate moisture level	Adequate moisture level	Adequate moisture level	Adequate moisture level	Adequate moisture level
Colour	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Fungal Development	Nil	Nil	Nil	Nil	Nil
Smell	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like	Organic/dirt like


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P.P. Diwasli
(Manager TG)

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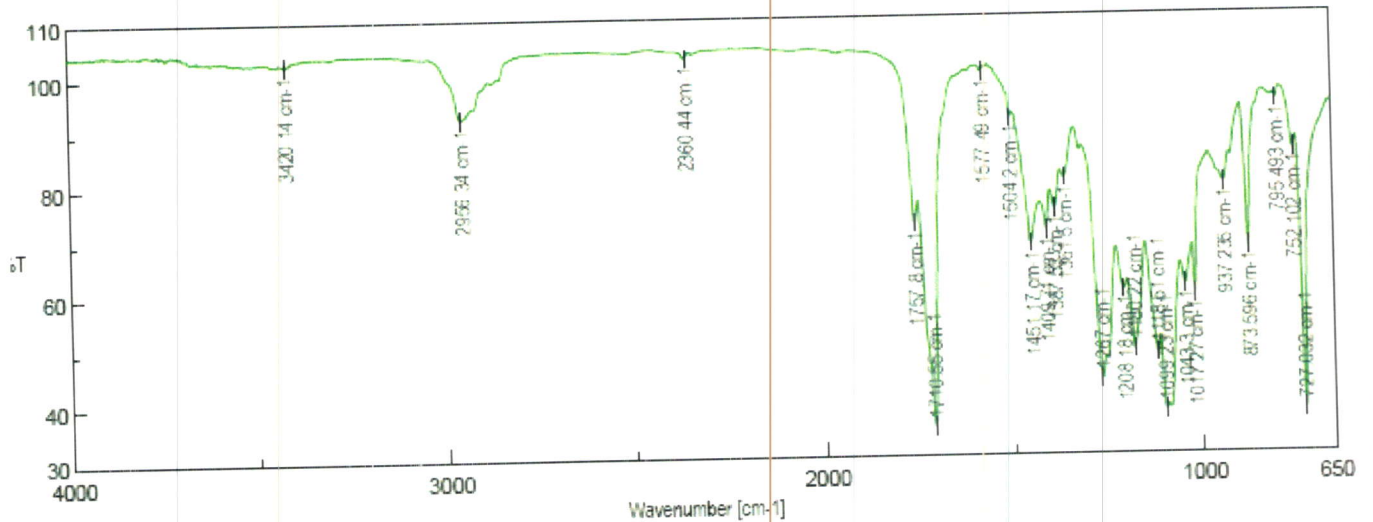
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7. FTIR Analysis

Sample Details : **COMPOSTABLE FILM** (As declared by the party)



Wave number (cm ⁻¹)	Nature of Bond
1) 3420.14	N - H Stretching vibrations
2) 2956.34	C - H Stretching vibrations
3) 1757.8	C = O Stretching vibrations
4) 1451.17	C - H Bending vibrations
5) 795.493	C = C Bending vibrations

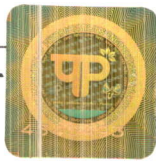
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R.P. Diwadi
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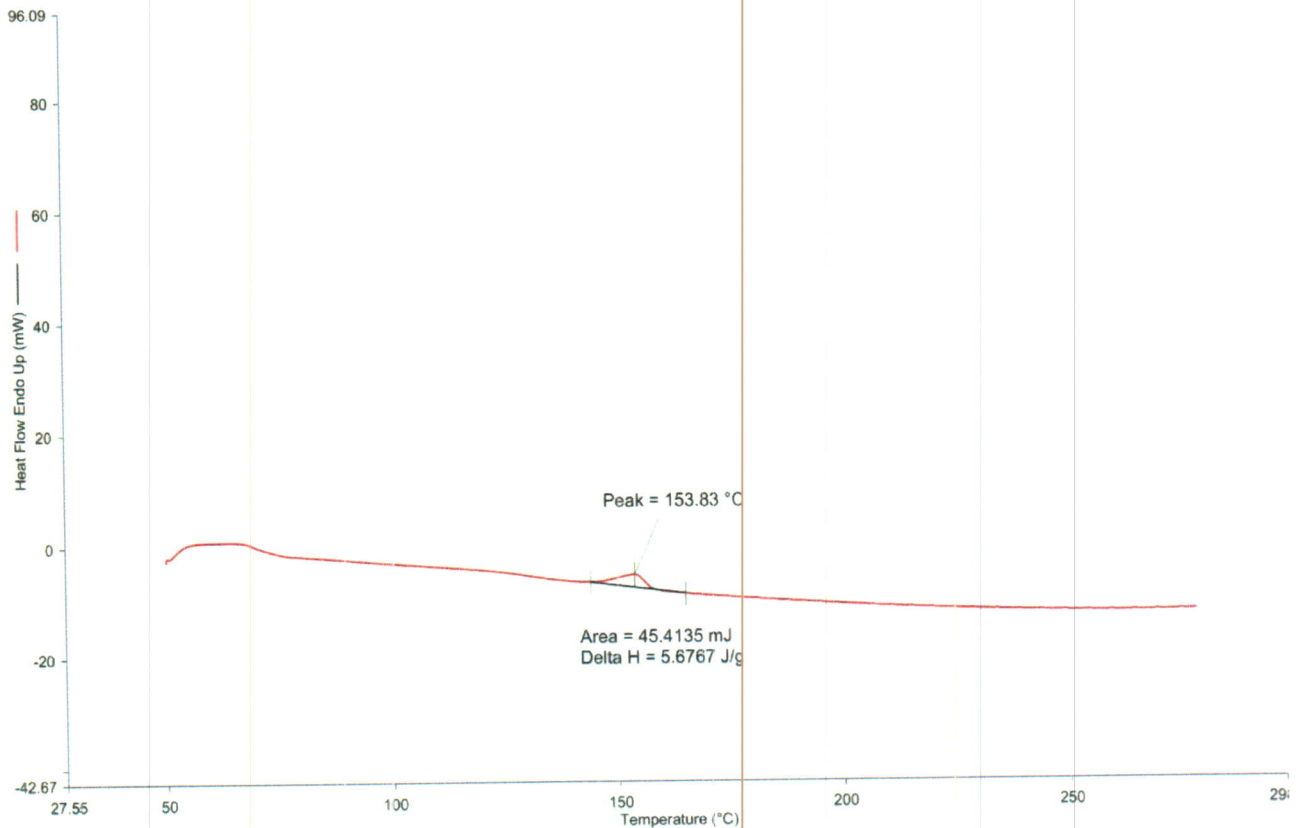
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8. DSC Analysis



Comment: The above DSC & FTIR analysis indicates the above sample is Blends of
PLA(Polylactic Acid) / PBAT(Polybutylene Adipate co-terephthalate) Film


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P.P. Diwasani
(Manager TS)

सिपेट : पेट्रोकेमिकल्स तकनीकी
संस्थान (आई.पी.टी.)



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CIPET : INSTITUTE OF PETROCHEMICALS
TECHNOLOGY (IPT)

(Formerly Central Institute of Petrochemicals Engineering & Technology)

Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
Plot No. 630, Phase-IV, G.I.D.C., Vatva, Ahmedabad-382445
Tele. : (079) 40103900-902, 925, Fax : (079) 40083905
Email : cipetahmd@gmail.com, ahmedabad@cipet.gov.in
Web. : www.cipet.gov.in
Head office : CIPET, Guindy, Chennai - 600 032

(पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान)

रसायन एवं पेट्रो-रसायन विभाग

रसायन एवं उर्वरक मंत्रालय, भारत सरकार

प्लॉट : नं 630 फेज-4, जी.आई.डी.सी., वटवा, अहमदाबाद-382445.

दूरभाष : (079) 40103900-902 फैक्स : (079)-40083905

ईमेल : cipetahmd@gmail.com, ahmedabad@cipet.gov.in

वेबसाईट : www.cipet.gov.in

मुख्यालय : सिपेट, गिण्डी, चेन्नै - 600 032

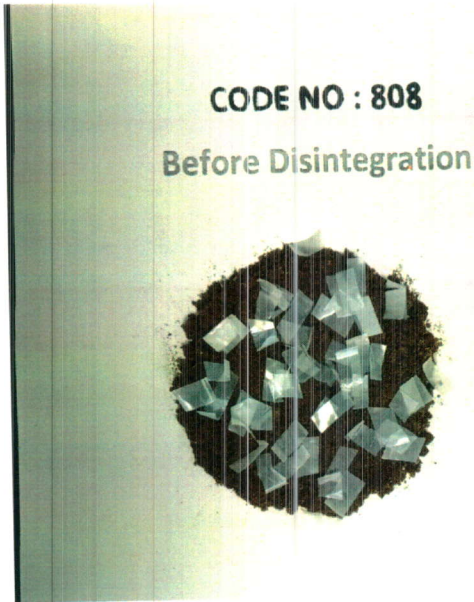
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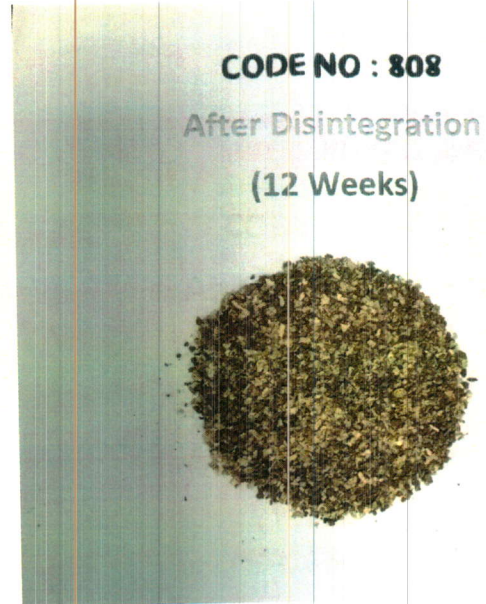
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9. DISINTEGRATION - AFTER 12 WEEKS



BEFORE DISINTEGRATION



AFTER DISINTEGRATION

The disintegration of the sample by passing through 2 mm sieve after 12 week in composting condition as per ISO 17088-2012/IS 17088: 2008 was found not more than 10% of original dry mass remain.


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P.P. Divasani
(Manager TS)

सिपेट : पेट्रोकेमिकल्स तकनीकी
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TECHNOLOGY (IPT)

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Plot No. 630, Phase-IV, G.I.D.C., Vatva, Ahmedabad-382445
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Email : cipetahmd@gmail.com, ahmedabad@cipet.gov.in
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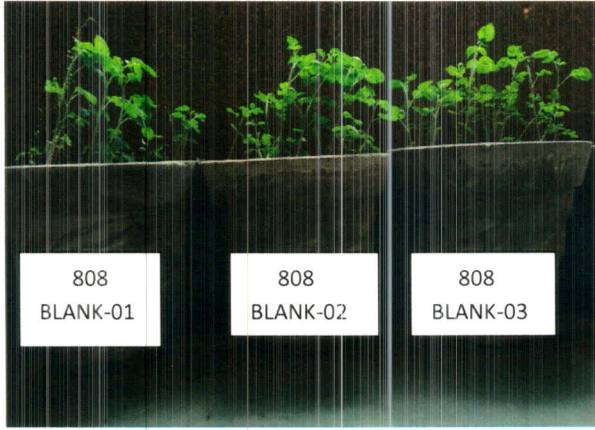
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प्लॉट : नं 630 फेज-4, जी.आई.डी.सी., वटवा, अहमदाबाद-382445.
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मुख्यालय : सिपेट, गिण्डी, चेन्नै - 600 032

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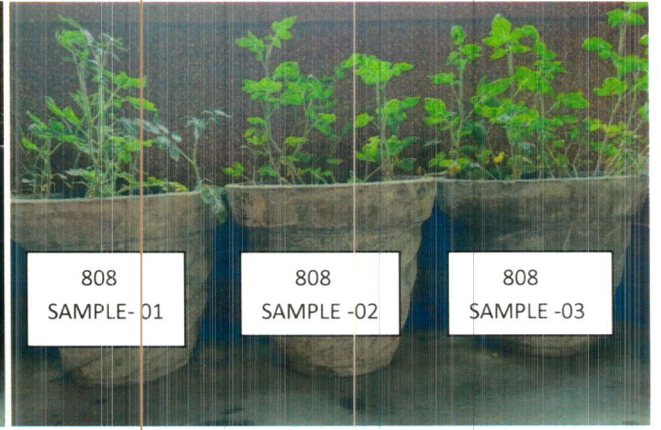
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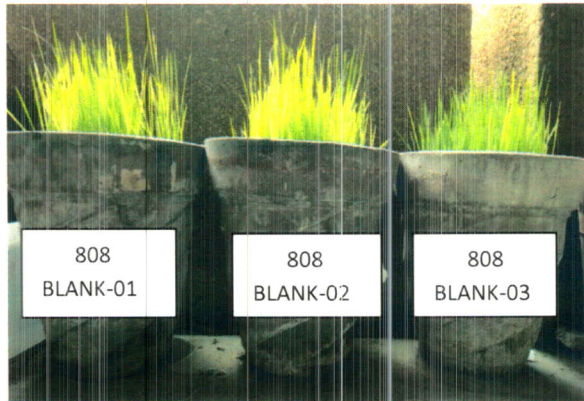
10. GERMINATION AND PLANT GROWTH STUDY



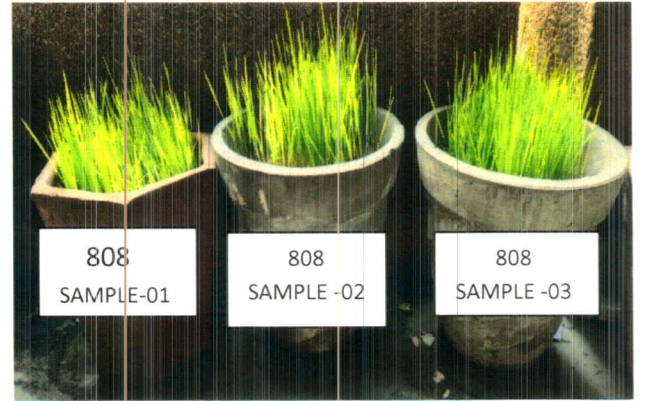
808 Compost (Control)



808 Compost (Sample)



808 Compost (Control)



808 Compost (Sample)

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

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P.P. Diwasani
(Manager TS)