



1<sup>st</sup> COMPOSTABLE  
BIOPLASTIC  
MANUFACTURER  
IN INDIA

Approved by CIPET, Govt of INDIA

**Dr. BIO®**  
BIO-POLYMERS & PRODUCTS

From corn to bio plastic GO SUSTAINABLE





Manufacturing Unit  
Plant 8 - 200000 Sq ft.

With a vision to improve the sustainability and anticipating market trends and future environmental regulations, Hi Tech Group a 40 year old manufacturer of masterbatches, resins and films has developed a new range of renewable and compostable biobased biopolymers: Our bio polymers are produced from Corn Starch in the agriculture rich region of Punjab, India and available in 45 countries globally.

Hi Tech Group's commitment towards sustainability is oriented to reduce the greenhouse gas impact, minimize the dependence on fossil oil derivatives, promote the use of renewable energies and to reduce the plastic waste in the environment.

-  Spread in 600,000 sq ft manufacturing area
-  Fully automated manufacturing line for manufacturing Bio Polymers
-  In house testing laboratory for consistent quality & control
-  Team of 100+ Sales & Service Manager across India
-  Present in 45 countries globally
-  Approved for Compostable standards India, Canada and USA
-  Vertically integrated for polymers and products manufacturing





## OUR GLOBAL PARTNER / Manufacturing Sites

**Dr. BIO®**  
BIO-POLYMERS & PRODUCTS  
*GO SUSTAINABLE*

### GLOBAL SITES



California, USA



Australia



Lyon, France



Dubai



Italy



Germany

### INDIAN SITES



Mumbai



Punjab



Chennai



Delhi, NCR  
Corporate Office



Sahnewal



Gurugram



**hiTech** \*



## OUR GLOBAL TEAM

**Dr. BIO®**

BIO-POLYMERS & PRODUCTS

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Jaz Manak  
CEO, USA



Ashley H.  
CEO, UK



Mark T.  
MD  
Preservation



Shawn B.  
Director  
Canada



Stephen B.  
MD  
Germany



Sid Sareen  
Director  
Technical



Mukul Sareen  
Director  
Global Sales



Monika G.  
MD  
East Europe



Eduardo  
Head Sales  
Mexico



Leonard P  
VP Sales  
USA



Asif A  
Head Sales  
East Europe



Horacio R.  
Head Sales  
Latin America



Ahmet  
Head Sales  
Turkey



Phillipps W.  
Head Sales  
Oceanic



Antoine B  
Head Sales  
France



Jhong Z  
Head Sales  
China



Dieter  
Head Sales  
South Africa



**hiTech**



WHAT IS DR. BIO

Dr. BIO

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE



## OUR MANUFACTURING CAPABILITIES

Compostable Polymer | Bio Plastic Raw Materials |  
Bio plastic films | Bio plastic bottles

Dr Bio is manufactured using bio based raw materials that are compostable and completely disintegrate during composting, undergoes aerobic and anaerobic biodegradation and have no adverse effect on plant growth.

It is manufactured in compliance with the ISO 17088, As5810 (BPI) and IS 17088 standards. Below test equipments are available in our lab for validation of each batch produced with care.

### Lab Equipment

MFI | Composting | Tensile | Tear | UV | Dart | MFI | VIA | Salt Spray  
Humidity Chamber | Specific Gravity | Water proofness

### Certified By

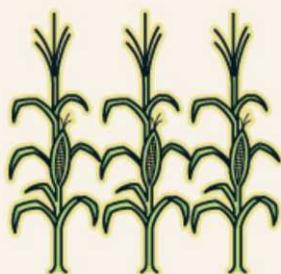
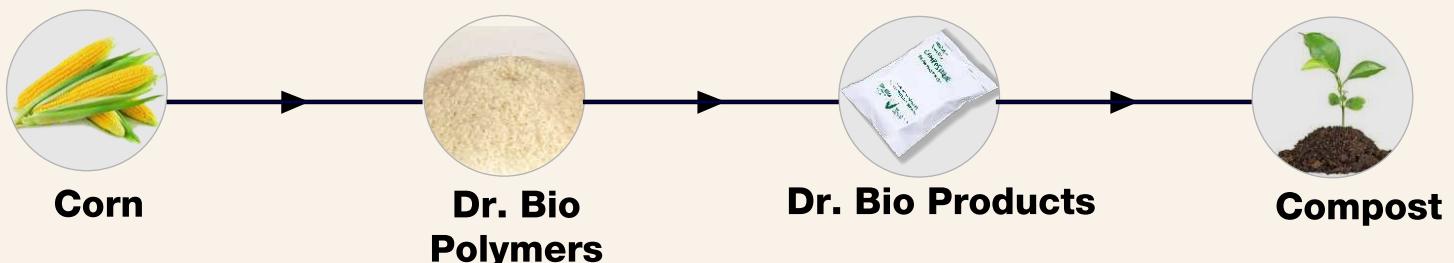




## LIFE CYCLE

**Dr. BIO**  
BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE



### Raw Materials

The process typically starts with growing plants such as sugar cane, corn and potatoes that are high in starches, the raw materials that replace petroleum products in bioplastics.



### Extraction

The plant materials are harvested and processed to extract their starches.



### Refining

The starches are processed further in bio-refineries through the use of special enzymes or fermentation (much as biofuels are made) to produce the chemical compounds that react to make plastics. The compounds can be refined to fit the specifications manufacturers need for different products.



### Compost and Renewal

The organic waste will compost and return to the earth as mulch to help new crops grow, completing the cycle.

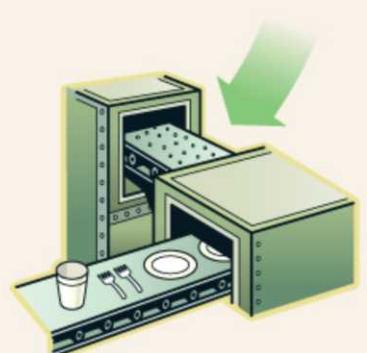
## The Life Cycle of Bioplastics

Some bioplastics decompose in a fairly short period of time, and the full life cycle of such products is shown here. Other bioplastics aren't biodegradable. But even in those cases, the use of plant-based raw materials means that pollution is being removed from the atmosphere while the plants grow, giving bioplastics a green appeal.



### Disposal

When disposing of a bioplastic product that is fully biodegradable, consumers can place it in an organic-waste collection bin.



### Manufacturing

Bioplastics manufacturers use pellets or granules of the compounds to make utensils, plates, cup linings, carpeting and other products.

Sources: CTC Clean Tech Consulting GmbH; WSJ reporting



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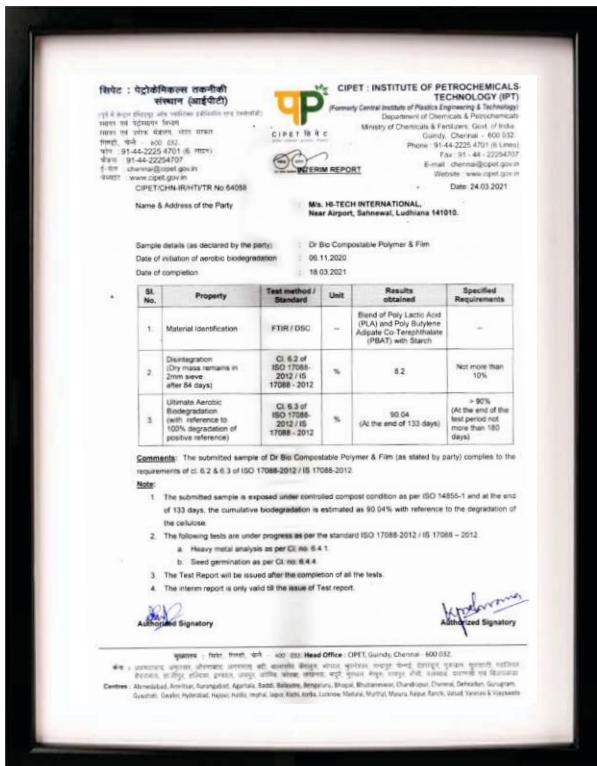


## CERTIFICATIONS

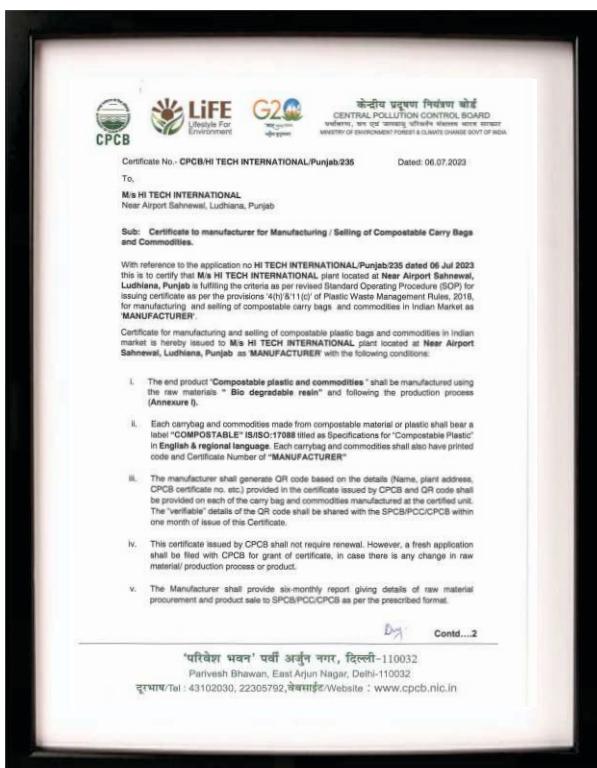
**Dr. BIO**

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE



**CIPET**



**CPCB**

**Compostability**  
90.04%  
Biodegradation in 133 days

**Disintegration**  
8.2%  
Dry Mass remains in 84 days



**Dr. Bio Trademark registration**



**ISO 9001**

**Heavy Metals**  
**Below**  
the specified requirements  
**Plant Growth Study**  
**Positive**  
results in degraded compost



**hitech**



## CERTIFICATIONS

**Dr. BIO**

GO SUSTAINABLE

TEST REPORT

Report No.: MAN/HI-1248009592

ISSUE DATE: 01<sup>st</sup> December, 2022

RECEIVED BY: SGS INDIA PVT LTD, GURUGRAM

PL-100, Sector 5, Gurgaon, Haryana-122052

INDIA

CONTACT PERSON : MR. MUKUL SAREEN

THE FOLLOWING SAMPLE(S) WERE(S) SUBMITTED AND IDENTIFIED BY(ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION: DR BIOCLEAR 6403

ITEM NO.: DR BIOCLEAR BAGS

COLOUR: CLEAR

END USE: METAL PACKAGING

CONDITION OF ORIGIN: IMPORTED

CONDITION OF SAMPLE: COMPLETE AND OK

THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES: SGS GURUGRAM LABORATORY

---

LAB PROVIDED DETAILS :

SAMPLE RECEIVED DATE: 28/11/2022

TEST PERFORMING DATE: 23/11/2022 TO 01/12/2022

SUMMARY OF TEST RESULTS:

TEST REQUESTED	CONCLUSION
UVT FOR 21 CFR 177.1520 (PVC/VINYLICENE)	PASS
MAXIMUM EXTRACTABLE FRACTION	PASS
LIMIT OF QUANTIFICATION	PASS

TEST(S) REPLIED / METHOD: PLEASE REFER TO NEXT PAGE(S). RESULTS APPLY TO THE SAMPLE AS RECEIVED

---

Per Pro SGS India Pvt. Ltd.

SANDIP BHATTACHARYA (Technical Manager)

Address: Signature

Email your Test Report Related Enquiries at [Feedback.HI.T@sgs.com](mailto:Feedback.HI.T@sgs.com)

JOB NO.: 220884205

NORM/STL

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Page 1 of 2

Correl No.: 124801211

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SGS India Pvt. Ltd.

Ph no. 21, Sector 5, MT Material, Gurugram District, Haryana - 122052 (India) | +91 124 677 1111

www.sgs.com/india

Member of the SGS Group (SGS SA)

USFDA

FSSC

BNQ



**90.04%**

## Biodegradation in 133 days



8.2%

Dry Mass remains in 84 days



Below

the specified requirements results in degraded compost



# Positive

results in degraded compost





COMMITMENT TO NATURE

Dr. BIO®  
BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE



## OUR COMMITMENT TO QUALITY, SAFETY AND THE ENVIRONMENT

We are committed to making safe and effective products that reduce industry's impact on the environment. Our products are approved by many major companies' toxicology, engineering and packaging departments and comply with health and safety regulations around the globe including the following:

### CERTIFICATIONS of Hi Tech Group



International  
Organization for  
Standardization

Intertek

SGS

RoHS  
COMPLIANT



Not only do HITECH products prevent waste, they are also environmentally responsible. Our product range has bio based and degradable polymers, recyclable polymers made from biomass.



hitech



TECHNOLOGY

Dr. BIO®

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE

# OUR TECHNOLOGY



LET'S **SAVE**  
**THE WORLD**



hi-tech



## A NOTE FROM THE DIRECTOR'S DESK

**Dr. BIO**

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE



**Mukul Sareen**  
Director Business Development  
B.IB (Hons), EE Harvard USA

**Dr. BIO**  
BIO-POLYMERS & PRODUCTS



**Sidhart Sareen**  
Director Technical  
Chemical & Polymer Engineer

Dr Bio is made from corn and is 100% compostable and biodegradable which has proven to be the best alternative of the normal plastic which does not depletes even in 1000 years. As for recycling paper, there is a limit to **recycling paper** and every kg of paper uses 70 liters of water to recycle the paper, which is counterproductive. Similarly, the process of recycling aluminum and recyclable plastic has high upfront capital costs and these processes themselves are unhygienic and unsafe. Even the recycles products are not of very high quality.

Dr. Bio polymers are just completely bio degradable, they can be **licensed** to other manufactures for usage in their manufacturing of various products as a substitute to conventional non biodegradable polymers on their **existing infrastructure**. It will also bring forward savings of upto 30% on electricity consumption during its processing. The products offered by the company are used in different sectors and applications such as appliances, plastic bottles, packaging, fresh food packaging, folded cartons, cellphone cases, service ware, nonwovens, other durable goods, printing toners etc.

The major advantage is that bio-based polymers **replace fossil carbon** in the production process with renewable carbon from biomass. This is indispensable for a sustainable, climate-friendly plastics industry. It shall also result in elimination of micro plastics from our environment. The **second most important** advantage is that is offering **employment to our farmers** to produce the rich maize crop which is a major raw material as against the import of crude oil that is used for production of currently used polymers. It has significant economic advantages and will help reduce the trade deficit.

Hi Tech Group a **38 year old manufacturer** of master batches, resins and films has developed a new range of renewable and compostable bio based biopolymers: Our bio polymers are produced from Corn Starch in the agriculture rich region of Punjab, India and available in 45 countries globally. Hi Tech Group's commitment towards sustainability is oriented to reduce the greenhouse gasses impact, minimize the dependence on fossil oil derivatives, and promote the use of renewable energies and to reduce the plastic waste in the environment..



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## A NOTE FROM THE DIRECTOR'S DESK

**Dr. BIO®**

BIO-POLYMERS & PRODUCTS

**GO SUSTAINABLE**



Following our core values, we have optimized our production processes in order to reduce the generated waste with a "zero waste" policy and to minimize our CO2 footprint impact from our activities. says Sid Sareen, Chemical & Polymer Engineer, and the group's Technical Director.

Dr. Bio is compostable polymer, which means the bio plastic disintegrates and completely composts within six months as validated by Govt of India laboratory. The Dr Bio compostable bioplastic material will have been converted to CO<sub>2</sub>. The remaining share is converted into water and biomass, which no longer contains any plastic. No heavy metal contents and no harmful substances should be left behind

According to some reports, Urban India generates 62 million tons of waste (MSW) annually, and this will reach 165 million tons in 2030. 43 million tons of municipal solid waste is collected annually, out of which 31 million is dumped in landfill sites and just 11.9 million is treated.

The sizes of landfills in India is constantly increasing and that is fast becoming a major concern. Contrary to the composition of waste in western countries, the majority of India's waste is organic which means that there is a tremendous opportunity to compost a lot of it. Then there is sustainability, renewable feedstocks such as corn, sugarcane, and algae can be utilized as raw material instead of petroleum, thereby reducing global dependence on crude oil and lessening the impact on climate.

With our unique Farm to Polymer model we are working closely with farmers to procure and secure our highly refined corn starch supplies and other essential bio mass inputs. The supplies are assured even if we 10X our production capacity than that of today as stated by Mukul Sareen, Director Business Development.



**hi-tech**

**PLASTIC****VS****DR BIO**

<b>Energy Consumption in production</b>	High	48% lower than petroleum based plastic production
<b>Raw Material</b>	Petroleum a non-renewable resource	Biomass obtained from starch of corn sugarcane potato & other renewable crops
<b>Carbon Footprint</b>	High as petroleum is involved	62% less emission of Co2 which is significantly less than traditional plastic
<b>Presence of Chemicals</b>	Presence of Bisphenol A (BPA) which is a potential hormone disrupting chemical	No presence of any toxic chemical
<b>Physical Properties</b>	Highly stable and thermo-plastic	Equally stable with high thermo-plasticity as traditional plastics
<b>Biodegradability</b>	Could take more than 500 years to decompose completely; needs to be recycled	Decomposes inside 180 days if decomposed in the right environment; releases methane on decomposition which can be harnessed to produce energy
<b>Effect on holding content</b>	Fails to retain the flavor & scent of the food stored in them potentially releases harmful substances in the food on long exposures	Retains the original flavor & scent of the food being carried in them
<b>Banned</b>	79 Countries	New way forward
<b>Processability</b>	injection films blow moulding	injection films blow moulding
<b>Price</b>	Low	20% - 100% higher than traditional plastic





## What is biodegradation?

Biodegradation is a chemical process in which materials are metabolised to CO<sub>2</sub>, water, and biomass with the help of microorganisms.

The process of biodegradation depends on the conditions (e.g. location, temperature, humidity, presence of microorganisms, etc.) of the specific environment (industrial composting plant, garden compost, soil, water, etc.) and on the material or application itself. Consequently, the process and its outcome can vary considerably.

## What is compostable?

Compostable plastics disintegrate after 12 weeks and completely biodegrade after six months. That means that 90 percent or more of the plastic material will have been converted to CO<sub>2</sub>. The remaining share is converted into water and biomass, which no longer contains any plastic. No heavy metal contents and no harmful substances should be left behind.

## What are physical properties?

Bio-based plastics have the same properties as conventional plastics but also feature the unique advantage to reduce the dependency on limited fossil resources and to potentially reduce greenhouse gas emissions. Moreover, bioplastics can make a considerable contribution to increased resource efficiency through a closed resource cycle and use cascades, especially if bio-based materials and products are being either reused or recycled and eventually used for energy recovery (i.e. renewable energy).

## What are typical applications?

Using biodegradable and compostable plastic products such as biowaste bags, fresh food packaging, or disposable tableware and cutlery increases the end-of-life options. In addition to recovering energy and mechanical recycling, industrial composting (organic recovery / organic recycling) becomes an available end-of-life option. The use of compostable plastics makes the mixed waste suitable for organic recycling (industrial composting and anaerobic digestion), enabling the shift from recovery to recycling (a treatment option which ranks higher on the European waste hierarchy). This way, biowaste is diverted from other recycling streams or from landfill and facilitating separate collection – resulting in the creation of more valuable compost.

## How to recycle bioplastics?

If a separate recycling stream for a certain plastic type exists, the bioplastic material can simply be recycled together with their conventional counterpart – e.g. biobased PE in the PE-stream or bio-based PET in the PET stream – as they are chemically and physically identical in their properties. The post consumer recycling of bioplastics materials for which no separate stream yet exists, will be feasible, as soon as the commercial volumes and sales increase sufficiently to cover the investments required to install separate recycling streams. It is expected, that new separate recycling streams for PLA for example will be feasible and introduced in the short to medium term. Compostability is a clear benefit when plastic items are mixed with biowaste. Under these conditions, mechanical recycling is not feasible, neither for plastics nor biowaste. The use of compostable plastics makes the mixed waste suitable for organic recycling (industrial composting and anaerobic digestion), enabling the shift from recovery to recycling (a treatment option which ranks higher on the European waste hierarchy). This way, biowaste is diverted from other recycling streams or from landfill and facilitating separate collection – resulting in the creation of more valuable compost.





PRODUCTS AND APPLICATIONS

Dr. BIO®

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE

# OUR



# PRODUCTS



hiTech

# BIODEGRADABLE & COMPOSTABLE | BAGS

**GO SUSTAINABLE**



# Cutlery & Glasses

100% Compostable



JOIN US AND MAKE A  
**DIFFERENCE**

ONE STRAW AT A TIME!



Parle Agro



PRODUCTS AND APPLICATIONS

**Dr. BIO®**

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE

## Process on which Dr Bio Polymer can be manufactured

Dr Bio Plastics raw materials suitable for



Blown Films



Cast & Lamination



Pipes & Straws



Injection & Blown Moulding

## Products that can be produced using Dr Bio Polymers

Dr Bio Plastics Products



Courier Bags



Bag on Rolls



T-Shirt Bags



U Band Straws



Food Packaging



Lamination



Shopping / Carry Bags



Agriculture



Shrink & Stretch Films



Paper Like Films



Bottles & Containers



Cutlery



**hiTech**



## BIO-POLYMER GRADES

**Dr. BIO**  
BIO-POLYMERS & PRODUCTS

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## FLEXIBLES

### Carry Bags

**Dr. Bio 7272**

Blow Film Extrusion  
Carry Bags, Films, Sheets



### Fruits and Veggies Bags

**Dr. Bio 7251**

For Fruits & Veggies



### Carry Bags Transparent

**Dr. Bio 7292**

Carry Bags Films & Sheets



### Bio Medical

**Dr. Bio 7293**

Waste Disposal Bags



### Stretch Film

**Dr. Bio 7294**

Blow Film Extrusion  
Cast Film Extrusion



### Shrink Films

**Dr. Bio 7275**

Blow Film Extrusion  
Cast Film Extrusion



### Agriculture

**Dr. Bio 7292**

Blow Film Extrusion, Cast Film Extrusion



### Courier Bags

**Dr. Bio 7295 - White**

Courier Bags



### Paper Lamination

**Dr. Bio 7291**

Blow Film Extrusion, Cast Film Extrusion





## BIO-POLYMER GRADES

**Dr. BIO®**

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE

## RIGIDS

Bottles

Dr. Bio 7277 - Transparent  
Stretch Blow Moulding



Cutlery

Dr. Bio 7280  
Injection Molding



Straw, Filament  
Extrusion Grade

Dr. Bio 7281  
Blow Film Extrusion



Trays & Cutlery

Dr. Bio 7271 - White  
Thermoforming, Injection Molding



Trays & Cups

Dr. Bio 7277 - Transparent  
Thermoforming, Injection Molding



Containers

Dr. Bio 7279 - White  
Injection Molding



Garbage Bags

Dr. Bio 7293  
Waste Disposal Bags



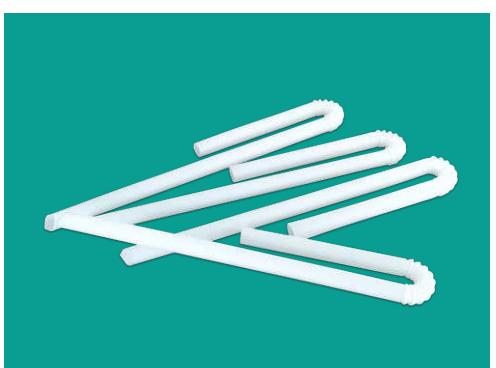
Bags on Roll

Dr. Bio 7294  
Vegetable bags on rolls



U Banned Straws

Dr. Bio 7291  
Blow Film Extrusion





NEWS & MEDIA

Dr. BIO®

BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE

NEWS &

# MEDIA

ARTICLES



hiTech





## TOI THE OF INDIA

Times 40 under 40 Summit  
2023

Mr. Mukul Sareen's Innovative Journey and '40 under 40' Recognition

PUBLISHED: 1 August 2023 / By Times Of India

Mr. Mukul Sareen, the founder of Dr. Bio Hi-Tech International Group, has been awarded the '40 under 40' recognition by Times of India for his contributions to several packaging technologies in India and USA. Hi-Tech is a product manufacturer specializing in biopolymers, anti-corrosion chemicals, automated machinery, oil and gas, steel automotive, agriculture, and the e-commerce sector.

## ET THE ECONOMICS TIMES



## Going Sustainable With Polymers

Hi-Tech International is the first company in the country to manufacture a plant based bio-polymer - Dr. Bio - which can be used to replace single-use and multi-use plastic products with bio-compostable plastic. The Machinist take a closer look...

PUBLISHED: June-July, 2021 / By Kruti Bharadva

The hazards of plastic waste are well known across the globe. India alone produces 9.46 million tons of plastic waste every year, of which 40 per cent remains uncollected and 43 per cent of which used for packaging, most of it single-use. The real green and sustainable solution for the industry is to take a leap from recyclable plastic and move towards bio-compostable plastics which dissolve in the soil, thus making a strong, positive impact...





# The Indian EXPRESS

## Ludhiana firm rolls out plant-based biopolymer

Dr Bio is the Indian biopolymer to have been approved by the Institute of Petrochemicals Technology, said Sidharth Sareen, Technical Director, Hi-Tech International in a press statement.

PUBLISHED: August 6, 2021 9:13:16 pm

Ludhiana-based company Hi-tech International has become the first company in the country to manufacture plant-based biopolymer — Dr Bio —which can be used to replace single-use and multi-use plastic products such as bottles, straws, cups, disposable cutlery, polybags, etc., with bio-compostable plastic.

Dr Bio is the Indian biopolymer to have been approved by the Institute of Petrochemicals Technology (formerly known as—Central Institute of Petrochemicals Engineering & Technology), said Sidharth Sareen, Technical Director, Hi-Tech International in a press statement.

He added, “The major advantage of Dr Bio is that the bio-based polymers replace fossil carbon in the production process with renewable carbon from biomass. The second advantage is that they are biodegradable (depending on the environment) and can therefore be a solution for plastics that cannot be collected. This results in elimination of micro plastics from our environment.”

# FINANCIAL EXPRESS

READ TO LEAD



## Bio-polymers: Smart solution for solving the plastic waste problem

Hi-Tech International's plant-based bio-polymer, Dr Bio, can be used to replace single-use and multi-use plastic products such as bottles, straws, cups, polybags and more

PUBLISHED: June 09, 2021 1:00 AM

The hazards of plastic waste are well known across the globe. In fact, India alone produces 9.46 million tonne of plastic waste every year, of which 40% remains uncollected. And 43% is used for packaging, most of it single-use.

About 60% of this has ended up in landfills or in the natural environment. Notably, the current industry practice to make plastic sustainable is to make it recyclable.





# THE HINDU Business Line



## Now, plant-based biopolymer from corn starch

Gurgaon-based Hi-Tech International gets nod to launch the alternative for plastics

**G**urgaon-based Hi-Tech International, a technology sourcing provider in the field of plastics and packaging, has come out with a plant-based bio-compostable polymer.

The biopolymer, made from corn starch, can replace single and multiple-use plastic products.

**Bio-compostable product** "Corn starch is the main ingredient in the polymer, which is biodegradable. It is 100 per cent compostable and can replace plastic bottles, straws, cups, disposable cutlery and polybags," said Mukul Sareen, Director, Business Development, Hi-Tech International.



## SME FUTURES



### Dr. Bio: A biopolymer made from starch to tackle the single-use plastic menace in India

A Gurugram based company becomes the first in the country to manufacture a plant-based biopolymer.

PUBLISHED: October 2, 2021

**T**his year 5 trillion plastic bags will be used. That's 160,000 a second! If you line them up one after the other, they will go around the world 7 times every hour and will cover an area twice the size of France. Don't get too shocked yet, as we have only mentioned plastic bags so far and there's more to the plastic menace than you can imagine.





# Industry Outlook

Manufacturing



## Navigating The Transition From Recyclable To Bio-Compostable Plastic

PUBLISHED: 07 May 2021

**M**ukul Sareen, Director of Business Development at HiTech Group, in an interaction with Sudhakar Singh, Editor, Industry Outlook, shares his views on the opportunities and challenges in manufacturing bio-compostable plastic.

Hi-Tech International is the first company in India to manufacture a plant-based bio-polymer – Dr. Bio. Depletion of petroleum reserves is providing an impetus to the global biopolymers market and the market is expected to grow at a CAGR of 19 per cent till 2025.



PLEXCONCIL - The Plastics Export Promotion Council

## PLEXCONNECT®



## The Leap from Recyclable to Bio-Compostable

**H**i-Tech International is the first approved company in the country to manufacture a plant-based biopolymer, Dr Bio, which can be used to replace single-use and multi-use plastic products such as bottles, straws, cups, disposable cutlery, polybags, etc., with bio-compostable plastic.

It is the first Indian biopolymer to have been approved by CIPET, thus uniquely positioning Hi-Tech International to drive the plastic industry towards sustainable bio-compostable plastic.

**D**r. Bio biopolymer resin compound is made from corn starch and is 100% compostable and biodegradable making it the best alternative of the normal plastic. The product is especially beneficial in packaging and also find wide application in home textiles, appliances, fresh food packaging, lamination of paper cups and cartons, disposables, cutlery etc.





# YOUR STORY



## How this Gurugram-based company is solving plastic waste problems with its bio-polymers

PUBLISHED: August 24, 2021

**I**ndia generates about 9.46 million tonnes of plastic waste every year, of which 40 percent remains uncollected, according to a study by Un-Plastic, a collective co-founded by the Confederation of Indian Industry (CII), United Nations Environment Programme (UNEP), and WWF-India.

And all that uncollected plastic ends up in waterbodies and stray garbage dumps, polluting not just the environment but also harming aquatic and terrestrial life.

It is now more imperative than ever to work around sustainable alternatives for plastic, and **Gurugram-based Hi-Tech International** has recently innovated a product that could provide just the right solution.

The company recently launched a **plant-based bio-polymer**, manufactured at its unit in **Ludhiana**.



## Gurgaon-Based Brothers Make Bioplastic From Corn Starch That Composts in 6 Months

Hi-Tech is the first company in the country to manufacture plant-based bio-polymer. Their latest installment, Dr. Bio, has received approval from the Institute of Petrochemicals Technology and can replace single-use plastic like drinking straws.

PUBLISHED: September 16, 2021

**A**ccording to estimates by the Central Pollution Control Board (CPCB), India's national per capita plastic waste generation stands at 7.6 gm per day. The official CPCB study goes on to state that India produces an astounding 3.3 trillion grams of plastic per year.





BIO-POLYMERS & PRODUCTS

GO SUSTAINABLE



USA - 14310 Gannet St, La Mirada, California 90638  
Germany - Schlosserstrasse 13, Lindlar, Germany 51789  
Italy - Via dell'Artigianato, 15, Provincia di Modena  
Mexico - G100 Plaza delaPaz 102,711 Puerto Silao, Guanajuato.  
Canada - 10608 172 St NW, Edmonton, AB T5S 1H8

India  
18 Sec 6 Manesar, Gurgaon | E133-134 Add Patalganga,  
Airport Road, Ramgarh, Ludhiana

info@drbio.in www.drbio.in

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