केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार.
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA.

Certificate No: **CPCB-UPC-II/future biopack industries/ Gujarat/767** 457

Dated: 26.08.2025

To,

M/s future biopack industries
Plot No. 73, Krishna Industrial Park – 4,
At-Kubadthal, Tal-Daskroi, Dist. Ahmedabad,
Gujarat, 382430

Sub: Certificate to manufacturer for Manufacturing / Selling of Compostable Plastic Carry Bags.

With reference to the application no. **future biopack industries/Gujarat/767 dated 24 Aug 2025** this is to certify that **M/s future biopack industries** plant located at **Plot No. 73, Krishna Industrial Park – 4, At-Kubadthal, Tal-Daskroi, Dist. Ahmedabad, Gujarat, 382430.** is fulfilling the criteria as per revised Standard Operating Procedure (SOP) for issuing certificate as per the provisions '4(h)'&'11(c)' of Plastic Waste Management Rules, 2018, for manufacturing and selling of compostable carry bags in Indian Market as **'MANUFACTURER'.**

Certificate for manufacturing and selling of compostable plastic bags and commodities in Indian market is hereby issued to **M/s future biopack industries** plant located at **Plot No. 73, Krishna Industrial Park – 4, At-Kubadthal, Tal-Daskroi, Dist. Ahmedabad, Gujarat, 382430.** as '**MANUFACTURER**' with the following conditions:

i. The end product "**Compostable plastics**" shall be manufactured using the raw materials **"PLA, PBAT"** and following the production process **(Annexure I).**

ii. Each carrybag and commodities made from compostable material or plastic shall bear a label **"COMPOSTABLE" IS/ISO:17088** titled as Specifications for "Compostable Plastic" in **English & regional language**. Each carrybag and commodities shall also have printed code and Certificate Number of **"MANUFACTURER"**

iii. The manufacturer shall generate QR code based on the details (Name, plant address, CPCB certificate no. etc.) provided in the certificate issued by CPCB and QR code shall be provided on each of the carry bag and commodities manufactured at the certified unit. The "verifiable" details of the QR code shall be shared with the SPCB/PCC/CPCB within one month of issue of this Certificate.

दिव्या सिन्हा / Divya Sinha
वैज्ञानिक 'एफ' / Scientist 'F'
केन्द्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)
(MoEF&CC, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

Contd....2

iv. This certificate issued by CPCB shall not require renewal. However, a fresh application shall be filed with CPCB for grant of certificate, in case there is any change in raw material/ production process or product.

v. The Manufacturer shall provide six-monthly report giving details of raw material procurement and product sale to SPCB/PCC/CPCB as per the prescribed format.

vi. The "Manufacturer" 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.

vii. If the certified Manufacturer is found non-complying with the provisions of the PWM Rules, 2018, the Certificate shall stand cancelled

(Divya Sinha)
Director & I/c-URC-II

दिव्या सिन्हा / Divya Sinha
वैज्ञानिक 'एफ' / Scientist 'F'
केंद्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)
(M/o Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

Manufacturing Process of Compostable Plastic Bags

- To make compostable plastic bags, we first need raw materials like starch, PBAT, PLA and bio filler. biodegradable plastic granules fed into a hopper. The granules are then transferred into an extruder, which consists of a heated barrel with a rotating screw. Inside the extruder, the pellets are heated, melted, and mixed to form a homogeneous molten mass.
- The molten plastic is extruded through a flat die, resulting in a continuous tube of bioplastic film. The diameter and thickness of the film are determined by the size and shape of the die. Cooling mechanisms, such as air or water, are employed to solidify the molten plastic and maintain its desired properties.
- In the bag-making machine, the continuous tube of plastic film is fed into a cutting and sealing section. Sharp blades or rotary cutters precisely cut the tube into individual bag lengths, while simultaneously sealing the sides to create the bag shape.

❖ Machinery/Equipment

- Extruder Machine
- Sealing and Cutting machine
- Punching machine

Divya Sinha
वैज्ञानिक 'एफ' / Scientist 'F'
केंद्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)
M/o Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

Process Flow Chart