Certificate No.- **CPCB-UPC-II/TAD Industries/Haryana/402** Dated: 06.11.2023

To,

M/s TAD Industries
Plot No. 158-E, Sector-3, Karnal Industrial Area,
Karnal, Haryana - 132001

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

With reference to the application no. TAD Industries/Haryana/402 dated 03 Nov 2023 this is to certify that **M/s TAD Industries** plant located at **Plot No. 158-E, Sector-3, Karnal Industrial Area, Karnal, Haryana- 132001** 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 and commodities 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 TAD Industries** plant located at **Plot No. 158-E, Sector-3, Karnal Industrial Area, Karnal, Haryana- 132001** 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.

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.

Contd....2

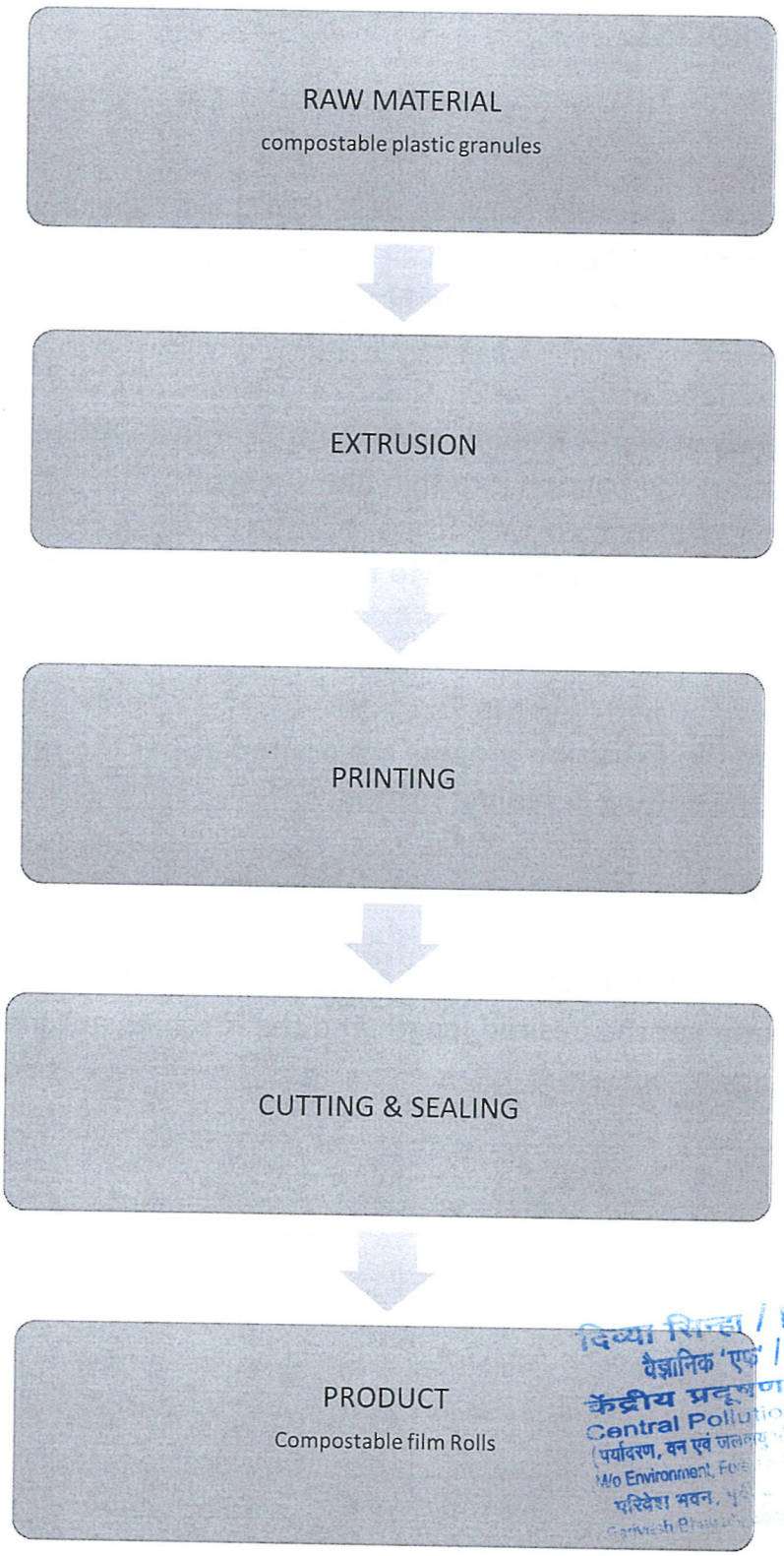
vi. The "Manufacturer" shall comply with provisions of PWM Rules / Guidelines issued from time to time by the Ministry of Environment, Forest & Climate Change or Central Pollution Control Board.

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 UPC-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

Process Flow Chart



MANUFACTURING PROCESS

1) Film Extrusion

Raw material of different densities (such as, PLA, PBAT) are super-heated and pressurized to form a molten liquid, which air is then pumped this process turns the molten plastic into a balloon-like film that passes through a tall vertical corridor.

As this bubble expands upwards it cools, coming into contact with many rollers that stretch and contort the balloon into thin film sheets.

These condensed rolls are then moved off to the printing department.

2) Printing

The rolls we get from the extrusion process are printed as per the requirement and further sent to the cutting & sealing section.

3) Cutting & Sealing

This is the final step in bag making; the rolls are loaded in the cutting sealing machine. The operator set the desired length and the machine automatically cut and seals the bags.