Standard Operating Procedure (SOP) for Issuing Certificate to
Manufacturers/Sellers of Compostable Plastic Carry Bags/Products
(Rule 4(h) of Plastic Waste Management (PWM) Rules, 2016)
September 2020
Central Pollution Control Board
Delhi

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#### CENTRAL POLLUTION CONTROL BOARD

# Standard Operating Procedure (SOP) for Issuing Certificate to Manufacturers/Sellers of Compostable Plastic Carry Bags

(Rule 4(h) of Plastic Waste Management (PWM) Rules, 2016)

#### 1. Introduction '

"Compostable plastic" as defined in Rule 3(e) of PWM Rules, means "plastic that undergoes degradation by biological processes during composting to yield CO<sub>2</sub>, water, inorganic compounds and biomass at a rate consistent with other known compostable materials, excluding conventional petro-based plastics, and does not leave visible, distinguishable or toxic residue."

As per the Rule 4(h) (Conditions) of PWM Rules, 2016, the manufacturers or sellers of compostable plastic carry bags have to obtain certificate from the Central Pollution Control Board before marketing or selling compostable carry bags.

This revised SOP is modified version of earlier SOPs dated 15/2/2018 and 26/12/2019 issued consequent to notification of Plastic Waste Management Rules to facilitate easy filing, uniformity in scrutiny and also to maintain transparency in issuance of certificate in accordance with Clause 4(h) of the PWM Rules. The revised SOP is in line with the provisions of Plastic Waste Management Rules , 2016 as amended.

The various provisons of the PWM Rule taken into consideration while preparing this SOP are enclosed at **Annexure I** 

#### 2. SOP for issuance of Certificate

#### 2.1 Submission of application

- i. The manufacturer/sellerof compostable plastic carry bags can apply to CPCB for the registration in Form-A (Manufacturer) ( Annexure II) and Form-B (Seller) (Annexure III), along with the prescribed documents.
- ii. Application along with digitally signed documents to be submitted by email on upc2.cpcb@gov.in.

iii. An application number shall be assigned and confirmatory e-mail be sent to the applicant <u>within three working days</u> of receipt of the application by CPCB

## 2.2. Guidance for Filling Application for manufactuer

5.	No.	Item	Detail
1		Address	
	Α	Name and full address along with	-Provide name and address of the manufacturer,
		telephone numbers, e-mail and	manufacturing unit along with postal address,
		other contact details of the	telephone numbers, mobile numbers, e-mail id.
		Manufacturer/Manufacturing unit	-All documents including Test report, Undertaking,
			Consent. Registration etc. to include the
			manufacturing unit address
	В	Mailing address with e-mail,	Information to be provided, if it is different from
		telephone and fax number	1(a)
2	Α	Registration from concerned	-In accordance with Rule 13(1) of PWM Rules,
		SPCB/PCC	Registration issued by the concerned SPCB/PCC
			has to be provided
			-The Registration should be valid on the date of
			submission of the application
3		Production details	
	Α	Raw material used (bio-based/non-	-Name of raw material used
		bio based, nature of additive used	-In case of imported material, necessary
		etc.);	documents to be attached
			accuments to be attached
			-Documents supporting procurement of raw
	В	Manufacturing process along with	-Documents supporting procurement of raw
	В	Manufacturing process along with flow diagrams	-Documents supporting procurement of raw material to be provided
	В		-Documents supporting procurement of raw material to be provided -Detailed process flow diagram indicating input
	В		-Documents supporting procurement of raw material to be provided  -Detailed process flow diagram indicating input raw material, process steps, final products and
	В		-Documents supporting procurement of raw material to be provided  -Detailed process flow diagram indicating input raw material, process steps, final products and
		flow diagrams	-Documents supporting procurement of raw material to be provided  -Detailed process flow diagram indicating input raw material, process steps, final products and waste streams to be provided
		flow diagrams  Details of end products and by-	-Documents supporting procurement of raw material to be provided  -Detailed process flow diagram indicating input raw material, process steps, final products and waste streams to be provided  -Details of compostable products proposed to be
		flow diagrams  Details of end products and by-	-Documents supporting procurement of raw material to be provided  -Detailed process flow diagram indicating input raw material, process steps, final products and waste streams to be provided  -Details of compostable products proposed to be

4	Α	Test reports as per Indian Standards	-Sample manufactured at the unit to be certified,
		IS/ISO: 17088 (as amended time to	to be sent for testing
		time).(Annexure IV)	-Testing has to be done at CIPET or any other
			CPCB recognized Government laboratory having
			adequate testing facilities.
			-Name & Address of the unit, Date of submission
			of sample to the testing agency to be clearly
			indicated on the test report
			-Complete test report covering all four
			components- Disntegration, Aerobic
			biodegradation, Compost testing and Heavy Metal
			Analysis is to be submitted
5	Α	Valid Consent Order( Air & Water)	-In accordance with Rule 13(5) of the PWM Rules
		from concerned SPCB/PCC	-The Consent should be valid on the date of
			submission of the application
6	Α	Details of pollution control	Measure for control of Air & water pollution and
		measures.	soild waste to be specified

Underatking as per format given in **Annexure V** has to be submitted along with the application

Checklist of documents to be submitted with the application is placed at Annexure VI

## 2.3 Guidance for Filling Application for Seller

S.N	Item	Details
0		
1	Name and full address along	- Provide name and address of the Seller, Selling unit along
	with telephone numbers, e-	with postal address, telephone numbers, mobile numbers, e-
	mail and other contact details	mail id.
	of the Seller/Selling unit	-All documents including Undertaking, etc. to include the
		Selling unit address

2	Product details				
S. No.	Name of the Product	Quantity proposed to be	Details of Dealers, Stocklists	Name and Address of manufacturer for procurement of	
		procured(TPA	and Users of	compostable bags	
		)	the product		
	Α	В	С	D	
i	-Products details which is to be marketed.	-Proposed quatity of	- Details of Dealers,	- Name and address of CPCB certified	
	marketed.	product to be procured from	stocklists and users of the	manufacturers of compostable bags from	
		CPCB certified manufacturer.	product.	whom the seller propose to procure.	

- -Authorization letter issued to the seller from the concerned manufacturers.(Refer column 2(D)
- -Registration issued by SPCB/PCC to concerned manufacturer as per Rule 13(1) of Plastic Waste Management,2018 for manufacturing of compostable carrybags.(Refer column 2(D) above)
- -Underatking as per format given in **Annexure V** has to be submitted along with the application

Checklist of documents to be submitted with the application is placed at Annexure VI

## 2.4 Processing of application

- The application shall be examined by CPCB and queries, if any, shall be communicated to the applicant <u>within seven working days</u> of receipt of the application.
- ii. The following check list will be used for evaluation of applications for grant of certificate by CPCB to manufacturer and seller.

#### **Checklist for Manufacturer:**

SI. No	Item	Provided (Yes/No)	Remarks
1	Form A		Date of Submission:
			Other:

2	Registration	Date of issue
	3	Date till which the certificate is valid
		Issued for compostable plastics/bags ( Y/N)
		Other
3	Consent to Operate	Date of issue
		Date till which the certificate is valid
		Other
4	Process Flow Diagram	
5	Test report ( CIPET or any	Date of sample submission for testing
	other Govt. laboratory	
	authorized by CPCB)	
а	Name & address of the	
	unit included	
b	Disntegration during	Disntegration during testing:
	testing	
С	Ultimate aerobic	Ultimate aerobic Biodegradation
	Biodegradation	
d	Seed Germination	Seed Germination
е	Heavy Metal Analysis	Heavy Metal Analysis
6	Details of raw material &	
	Documents supporting	
	procurement of raw	
<u> </u>	material	
7	Detail of end product & by	
	product and documents	
	supporting sale of end-	
	products	A A
9	Undertaking	As per Annexure-V
10	Recommended(Yes/No)	

## **Checklist for Seller:**

SI.	Item	Provided	Remarks
No		(Yes/No)	
1	Form B		Date of Submission:
			Other:
2	Authorization letter issued		
	to seller by manufacturer		
3	Registration issued by		Date of issue
	SPCB/PCC to concerned		Date till which the certificate is valid
	manufacturer as per Rule		Issued for compostable plastics/bags (Y/N)
	13(1) of Plastic Waste		Other
	Management,2018 for		
	manufacturing of		
	compostable carrybags.		
4	CPCB certificate issued		Date of issue
	to manufacturer		Other
5	Undertaking		As per Annexure-V
6	Recommended(Yes/No)	·	

- iii. The applicant has to respond to CPCB's query and if no response is received from the applicant within thirty days of receipt of CPCB query, failing which the the application shall be considered as rejected
- iv. The certificate shall be **generated**, if CPCB does not send any response to the applicant within one month of the receipt of the application in its office

#### 2.5 Issuing of Certificate

- i. Certificate in accordance with Rule 4(h) of the PWM Rules 2016 as amended, shall be issued within seven working days of submission of the application complete in all respects. Copy of the Certificate shall be provided to the concerned SPCB/ PCC. Format of certificate fo manufacturer and seller is given in Annexure VIII and Annexure VIII respectively
- ii. The certificate issued by CPCB shall be valid unless it is revoked for violation of conditions stipulated in the Certificate. However, if there is a there is a change in raw material/ production process or product, fresh application shall be filed to CPCB for issuing of fresh certificate
- iii. If the unit does not have a valid registeration from the SPCB/PCC then the certificate shall be issued with the condition that the manufacturer/seller shall manufacture/sell the compostable carry bags only after they obtain a valid Registration for manufacturing of Compostable carrybags from concerned SPCB/PCC. The Registration should be submitted to CPCB within 03 months of issue of the Certificate by CPCB, failing which the Certificate shall be revoked
- iv. Provisional Certificate shall be issued in the following two cases:
  - a) Interim test report as per IS/ISO:17088 covering first two components (a) Disintegration during composting and Ultimate aerobic biodegradation is submitted. Final certificate in such cases shall be issued on submission of complete test report covering all four components-, including seed germination and heavy metal analysis test (after 180 days),
  - b) If the sample has been sent for testing prior to grant of Consent to Operate from SPCB/PCC indicating the sample has not been manufactured at the unit

- under consideration, the unit shall send a fresh sample manufactured at the unit for testing after the grant of the provisional certificate. Final certificate, in such cases shall be issued after submission of compete test report. The condition regarding fresh testing of the sample in such cases shall be included in the certificate to be issued to the concerned unit
- c) The validity of provisional certificate shall be six months, which is extendable by six months, subject to the condition that the reasons cited by the applicant seeking extention are found valid by CPCB. Format of the provisional certificate is given at Annexure IX
- (iv) Member Secretary, CPCB shall be the approving authority for issuing of the Certificate and Divisional Head, UPC II, CPCB shall be the designated signatory on the Certificate

### 2.6 Monitoring Mechanism

- i. Each plastic carrybag and multi-layered packaging shall have the information related to name and certificate number of manufacturer [Rule 4(h)] in case of carry bags made from compostable plastic printed in English on the bag in accordance with 11(1) of PWM Rules.
- ii. In addition, the manufacturer shall generate QR code based on the details provided in the certificate issued by CPCB and QR code shall be provided on each of the carrybag manufactured at the certified unit. The details of the QR code(email/password, Name, plant address, CPCB certificate no. etc.) shall be shared with the SPCB/PCC/CPCB.
- iii. The Manufacturer/ seller shall provide six-monthly report, giving details of raw material procurement and product sale to concerned SPCB/ PCC/ Format of six-monthly report is place at **Annexure X**, which shall be subject to verification by concerned SPCB/PCC. A copy of the report is to be forwarded to CPCB

- iv. Field verification of the units shall be carried out by SPCB/PCC covering atleast 10% of the units in their States/UTs in every quarter.. The format for field verification is placed at Annexure XI
- v. Market survey shall be carried out to ensure availability of certified compostable carry bag at the consumer end
- vi. SPCBs/PCCs shall submit the six- monthly compliance report covering point iv, as per format given in **Annexure XII** to CPCB
- vii. CPCB shall independently conduct field verification of the certified units annually as per prescribed format (Annexure XI) and market survey to assess the compliance of the PWM Rules w.r.t manufacture and sale of compostable plastics
- viii. If at any stage, the manufacturer and seller of compostable bags is found to be violating the stipulated norms, the certificate issued by CPCB, shall stand cancelled

#### 2.7 Cancellation of Certificate

- CPCB may cancel or suspend the certificate of the manufacturerer/seller, in case the manufacturer fails to comply with any of the conditions of the certificate.
- ii. If any manufacturer/seller, is found to be violating the provision of certificate, during random checking by CPCB or based on verification by SPCBs, a notice shall be issued by CPCB.
- iii. An opportunity will be given to hear the manufacturer/seller within fifteen days from the date of issuance of notice; prior to considering the case for cancellation or suspension of EPR authorisation by CPCB.
- iv. The decision on cancellation or suspension of authorization will be intimated within 10 working days after hearing.
- v. Chairman CPCB will be the final authority for taking decision on cancellation or suspension.

## 2.8 Applicability of SOP

- (i) SOP shall be applicable to all application received after the date of issue of the current SOP.
- (ii) The applications under process at CPCB for issue of Certficate shall be assessed as per provisions of the current SOP.
- (iii) Certificates, which have already been issued by CPCB as on date, shall be reviewed as per provisions of this SOP within a period of three months from the issue of the current SOP and necessary action as required shall be taken by the manufacturer/SPCB/PCC/CPCB.

#### Annexure I

#### Provisons of PWM Rules 2018 related to SOP on issue of Certificate of compostable plastics

The following are the Provisiosn of PWM Rules 2018 taken into consideration while preparing this SOP

- i. Rule 4(h) (Conditions): The provision of minimum thickness of 50 micron shall not be applicable to carry bags made up of compostable plastic. Carry bags made from compostable material or plastics shall conform to the Indian Standard: IS:17088 (as amended from time to time) titled as 'Specifications for Compostable Plastics'.
- ii. Rule 10 (Protocols for compostable plastic material): Determination of the degree of degradability and degree of disintegration of plastic material shall be as per the protocols of the Indian Standards IS/ISO: 17088 (as amended time to time).
- iii. Rule 11 (Marking or labelling):1(c): shall have the following information printed in English; name and certificate number in case of carry bags made from compostable plastic. Each carry bag made from compostable plastics shall bear a label "compostable" and shall conform to the Indian Standard: IS/ISO-17088 (as amended from time to time) titled as "Specifications for Compostable Plastics".

#### **Annexure II**

## Form- A. Format for obtaining certificate from CPCB forCompostable Carry Bags by Manufacturer

(Rule 4(h) of Plastic Waste Management Rules, 2018)

S.No.	Item	Detail
1	(a)Company Details	Address:
		Contact No:
		email:
	(b) Mailing address with a mail talanhana	Tel-fax:
	(b) Mailing address with e-mail, telephone	
	and fax number	
2	Registration from concerned SPCB/PCC	
3	Production details	
(a)	Raw material used (bio-based/non-bio	
	based, nature of additive used etc.); in	
	case of imported material, attach	
	necessary document	
(b)	Manufacturing process along with flow	
(c)	diagrams  Details of end products and by-products	
(0)	Details of end products and by-products	
(d)	Plant capacity (as per the consent	
, ,	issued from SPCB/PCC)	
4	Test reports as per Indian Standards	
	IS/ISO: 17088 (as amended time to	
	time) from CIPET or any other CPCB	
	recognized Government	
	laboratoryhaving adequate testing facilities.	
5	Valid Consent Order from concerned	a. Air Consent
	SPCB/PCC	b. Water Consent
6	Details of pollution control	
	measures	

Note: 1. Enclose necessary documents wherever applicable.

- 2. Attach extra sheet for the information where the space is not enough.
- 3. Undertaking on Stamp paper as per Annexure V to be provided

Date:	Signature of the Applicant
Place:	(with seal)

#### **ANNEXURE III**

## Form- B. Format forobtaining certificate from CPCB for Marketing and Selling of Compostable Plastic Carry Bags by Seller

(As per Rule 4(h) of Plastic Waste Management Rules, 2018)

S.No	Item		Details			
1.	Company		Address:			
	Details					
			Contact No:			
			email:			
			Tel-fax:			
2.	Product de	tails				
S.	Name of	the	Quantity	Details of	Name and Address of	
No.	Product		proposed to be	Dealers,	manufacturer for procurement of	
			procured(TPA)	Stocklists and	compostable bags	
				Users of the		
				product		
	Α		В	С	D	
i.						
ii.						
iii.						
iv.						
٧.		•				

- Authorization letter issued to the seller from the concerned manufacturer.(Refer column 2(D)(to be enclosed)
- 4. Registration issued by SPCB/PCC to concerned manufacturer as per Rule 13(1) of Plastic Waste Management,2018 for manufacturing of compostable carrybags.(Refer column 2(D) above)(to be enclosed)

Note: 1.Enclose necessary documents wherever applicable.
2.Attach extra sheet for the information where the space is not enough.

Date:	Signature of the Seller
Place:	(with seal)

#### **ANNEXURE IV**

#### **Testing Protocol:**

#### Specifications for Compostable Materials/Plastics (As per Indian Standard: IS/ISO: 17088)

- 1.0 Scope:IS/ISO:17088 Standard specifies procedures and requirements for the identification and labelling ofplastics, and products made from plastics, that are suitable for recovery through aerobic composting. The fourfollowing aspects are addressed:
  - i. Biodegradation,
  - ii. Disintegration during composting,
  - iii. Negative effects on the composting process and facility,
  - iv. Negative effects on the quality of the resulting compost, including the presence of high levels of regulatedmetals and other harmful components.

This specification is intended to establish the requirements for the labelling of plastic products and materials, including packaging made from plastics, as "compostable" or "compostablein municipal and industrial composting facilities" or "biodegradable during composting" (for the purposes of this International Standard, these three expressions are considered to be equivalent). The labelling will, in addition, have to conform to all international, regional, national or local regulations.

#### 2.0Terms and definitions:

- Biodegradable during composting: Material that undergoes degradation by biological processes during composting to yield CO<sub>2</sub>, water, inorganiccompounds & biomass at a rate consistent with other known compostable materials &leave no visible, distinguishable or toxic residue.
- II. **Catalyst:** Substance, used in small proportion, that augments the rate of a chemical reaction and theory, remains unchanged chemically at the end of the reaction.
- III. Compost: Organic soil conditioner obtained by biodegradation of mixture consisting principally of vegetable residues, occasionally with other organic material & having a limited mineral content.
- IV. **Composting:** Aerobic process designed to produce compost.

#### 3.0 Principle:

The purpose of IS/ISO:17088specification is to establish standardsfor identifying and labelling plastic products and materials that will compost satisfactorily in well-managed composting facilities where the typical conditions of composting can be consistently obtained (i.e. a long thermophilic

phase, aerobic conditions, sufficient water content, a suitable carbon/nitrogen ratio, etc.). Products meeting the requirements are appropriate for labelling as "compostable",

#### "compostable in municipal & commercial facilities" or "biodegradable during composting".

The test simulates an intensive aerobic composting process. It measures

- i. The ultimate-level of aerobic biodegradation of the test material
- ii. The degree of disintegration obtained
- iii. Any negative effects on the finished compost
- iv. The maximum concentration of regulated metals in the compost.

The test is terminated when the plateau phase of the biodegradation has been attained, the standard time fortermination is **45 days**, but the test could continue for up to **sixmonths**.

- **4.Basic Requirement:**In order to compost satisfactorily, a plastic product or material shall demonstrate each of the following characteristics:
  - i. Disintegration during composting: The plastic product or material shall disintegrate during composting such that any remaining plastic is notreadily distinguishable from the other organic materials in the finished compost. Additionally, the plastic product or material shall not be found in significant quantities during screening prior to final distribution of the compost.
- **ii. Ultimate aerobic biodegradation:**The ultimate level of aerobic biodegradation shall be established by testing under controlled conditions.
- iii. No adverse effect on ability of compost to support plant growth: The plastic product or material tested shall have no adverse effect on the ability of the compost to supportplant growth, when compared to blank composts to which no test or reference substance has been added atthe start of testing. In order to ensure that the composting of plastic products or materials does not have any harmfuleffects on the finished compost or on the environment and complies with appropriate regional & national regulations, following requirements shall be met:
  - a. The concentrations of regulated metals & other toxic substances in the plastic product or materialshall be <50 % of those prescribed for sludges, fertilizers and composts in the country where the finalproduct will be placed on the market or disposed off.
  - b. The plastic product or material shall contain a minimum of 50 % of volatile solids.
  - c. The seedling germination rate of the finished compost and the plant biomass in the compost shall not be <90% of that of corresponding blank composts to which no test or reference material was addedat the start of testing, determined in accordance with OECD Guideline 208 with the modifications specified in **Annex E** of EN 13432:2000.

iv. Compliance with national regulations: Based on the relevant national and/or regional regulations, the plastic product or material shall not, upondecomposition, release unacceptably high levels of regulated metals or other toxic substances into the environment. It is theresponsibility of the user to conform to the applicable national and/or regional regulations dealing with metals, other elements and toxic substances in the environment.

#### v. The term"biodegradable":

shall not be used to describe the performance of plasticswhichmeet this specification unless the conditions typically found in composting and described in ISO:14855-1 Amended SOP: 26-12-2019 Included (for example "biodegrdable during composting").

#### Disintegration during composting:

A plastic product is considered to have demonstrated satisfactory disintegration if, after 84days in a controlledcomposting test, no more than 10 % of its original dry mass remains after sieving through a 2mm sieve. Thetest shall be carried out in accordance with ISO 16929, ISO-20200, ISO-14855-1 or ASTM-D5338 under thermophilic composting conditions without the CO<sub>2</sub>-trappingequipment.

#### Ultimate aerobic biodegradation:

- i. A plastic product is considered to have demonstrated a satisfactory rate and level of biodegradation, when tested in accordance with ISO-14855-1, ISO-14855-2/ASTM-D5338, it achieves the ratio of conversion to carbon dioxide (CO<sub>2</sub>) within specified time period The ultimate aerobic biodegradability shall be determined for the whole material and for each organic constituent which is present in the material at a concentration of more than 1% (by dry mass). Constituents which are present at concentrations of less than 1% do not need to demonstrate biodegradability, however, the sum of such constituents shall not exceed 5%.
- ii. For all polymers, 90% of the organic carbon (relative to a positive-control reference material) shallhave been converted to carbon dioxide by the end of the test period. Both the positive control andthe test sample shall be composted for the same length of time and the results compared at the same point intime after the activity of both has reached a plateau. The positive control used shall be microcrystallinecellulose.
- iii. As an alternative, 90 % (in absolute terms) of the organic carbon shall have been converted to carbon dioxideby the end of the test period.
- iv. The test period shall be no longer than **180days**.

#### 5.0 Test report:

The test report shall provide all pertinent information, including:

i. All information necessary to identify and describe the product or material tested.

- ii. References to all standards, guidelines and regulations regarding the content of regulated metals and other toxic substances (a table of regulated *metals* and other *toxic* substances shall be presented, specifying each such reference and stating the prescribed limit for each metal and othertoxic substance, the concentration determined in the test and the percentage of the prescribed limit).
- iii. A description of other relevant requirements in the referenced documents & a statement, for each such requirement, as to whether the test result was in conformity with the requirement or not.

#### 6.0 Testing Laboratory:

The compostable products made from 100% bio-based material can be tested in the CIPET or any other CPCB recognized Government laboratory having adequate testing facilities for this purpose. The test shall be carried out as per Indian Standard IS/ISO-17088, as amended time to time. The test report shall include the results of following test:

- 1. Disintegration during composting.
- 2. Ultimate aerobic biodegradation.
- 3. Heavy metal analysis
- 4. Seed germination

**ANNEXURE V** 

LETTER OF UNDERTAKING FOR REGISTRATION OF COMPOSTABLE CARRY BAGS

(On Stamp Paper of ₹100/- Duly Notarized)

I------having requisite requirements for obtaining Certificate for Manufacturing/Selling of Compostable carry bags do hereby solemnly affirm

that;

1. We have duly complied with all the necessary & requisite requirements in respect of the

provisions of the Plastic Waste Management Rules, 2018& as per Standard Operating

Procedure (SOP) issued by CPCB to obtain the Certificate for Marketing & Selling of

Compostable plastic carry bags in Indian Market.

2. We further undertake that in case any false information is found or fake products are

manufactured/stocked/sold by my company or my authorised distributor, the Certificate issued

by CPCB can be cancelled and suitable penal action shall be initiated under Section "5" & "15"

of Environmental (Protection) Act, 1986 and no fresh application in my name or company name

shall be entertained by CPCB.

Date:Signature of the Applicant

Place: (with seal)

#### **ANNEXURE VI**

#### Checklist of documents to be submitted along with Application:

#### A. Manufacturer

- a) Duly filled Form-A.
- Registration Certificate for production of compostable carry bags from concerned SPCB/PCC under Rule 13(i) of Plastic Waste Management Rules, 2018
- c) Consent under Air & Water Act issued by SPCB/PCC.
- d) Flow diagrams of manufacturing process.
- e) Documents supporting procurement of raw material.
- f) Test report of sample as per IS/ISO:17088 from designated laboratory.
- g) Documents supporting sale of end-products to be provided.
- h) Details of pollution control measures.
- i) Undertaking letter on ₹100/- Stamp paper.( Format for undertaking **Annexure V**)

#### B. Seller

- a) Duly filled Form-B.
- b) The seller will procure its raw material from manfacturers registered with SPCB/PCC for manufacture of compostable carry bags under Rule 13(i) of Plastic Waste Management Rules,2018 (PWM Rules) and whom certificate has been issued by CPCB under Rule 4(h) of Plastic waste Mangement Rules, 2018. A copy of Registration issued by concerned SPCB/PCC as well as copy of certificate issued by CPCB to such manufacturers is to be provided along with the application.
- c) Authorization letter issued to the seller from the concerned manufacturer.
- d) Undertaking letter on ₹100/- Stamp paper.

Α	N	N	ΕX	(U)	RE	VII	

,	
Dated:	

#### Sub: Certificate to manufacturer for Manufcaturing / Selling of Compostable Carry Bags

With reference to the application no...... this is to certify that **M/s.** ( Name & Address of the Unit) .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 in Indian market is hereby issued to to ..... as 'MANUFACTURER' with the following conditions:

- The end product shall be manufactured using the raw materials and following the production process
   (Annexure I)
- ii. Each carrybag 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 shall also have printed code: ...and Certificate Number of "MANUFACTURER".
- iii. The manufacturer shall generate bar code based on the details provided in the certificate issued by CPCB and bar-code sticker shall be provided on each of the carry bag manufactured at the certified unit. The details of the bar code(email/password etc.) shall be shared with the SPCB/PCC/CPCB
- 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. The manufacturer/seller shall manufacture/sell the compostable carrybags only after they obtain a valid Registration for manufacturing of Compostable carrybags from concerned SPCB/PCC. The Registration should be submitted to CPCB within 03 months of issue of the Certificate by CPCB, failing which the Certificate shall be revoked. (To be included if vallid registration is not submitted along with the application)
- viii. If the certified Manufacturer is found non-complying with the provisions of the PWM Rules, 2018, the Certificate shall stand cancelled

(Name & designation)

#### **ANNEXURE VIII**

#### Certificate to seller for Marketing and Selling of Compostable Carry Bags

Certificate No	Dated:
То,	
M/s	

With reference to the application no...... this is to certify that **M/s.** .......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 marketing and selling of compostable carry bags such as in Indian Market as '**SELLER**'.

Central Pollution Control Board, hereby, grant the permission to ..... as 'SELLER' for Marketing and Selling of compostable carry bags in Indian Market subject to the following conditions

- The Certified 'SELLER', M/s...., shall comply with the provisions of '4(h)' & '11(c)' of the PWM Rules, 2018, notified under the Environmental (Protection) Act, 1986.
  - ii. The certified Seller, **M/s.** ....., shall comply with conditions for compliance as per any Guidelines issued from time to time by the Ministry of Environment, Forest & Climate Change or Central Pollution Control Board.
- iii. The seller shall provide six-monthly details of procurment of compostable carry bags from resignered manufacturer as per prescribed format.
- iv. The seller shall provide quantity details of sales of compostable carry bags.
- v. Each carrybag 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 shall also have printed M/s: ...; code.... and Certificate Number of "Seller".
- vi. If any stage, information provided by the seller, is found to be incorrect then the Certificate granted by CPCB shall stand cancelled.

(Name & designation)

ANNEXURE IX

	ANNEXONE IX
Certificate No	Dated:
To,	
M/s	

#### Sub: Provisional Certificate to manufacturer for Manufacaturing / Selling of Compostable Carry Bags

With reference to the application no..... this is to certify that M/s. ( Name & Address of the Unit) .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 in Indian market is hereby issued to to ..... as 'MANUFACTURER' with the following conditions:

- i. The end product shall be manufactured using the raw materials and following the production process (Annexure I)
- ii. Each carrybag 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 shall also have printed code: ...and Certificate Number of "MANUFACTURER".
- iii. The manufacturer shall generate bar code based on the details provided in the certificate issued by CPCB and bar-code sticker shall be provided on each of the carry bag manufactured at the certified unit. The details of the bar code(email/password etc.) shall be shared with the SPCB/PCC/CPCB
- iv. 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
- The "Manufacturer" shall comply with provisions of PWM Rules/ Guidelines issued from time to time by ٧. the Ministry of Environment, Forest & Climate Change or Central Pollution Control Board
- νi. The manufacturer/seller shall manufacture/sell the compostable carrybags only after they obtain a valid Registration for manufacturing of Compostable carrybags from concerned SPCB/PCC. This Registration should be submitted to CPCB upon its receipt from concerned SPCB/PCC. (To be included if vallid registration is not submitted along with the application)
- If the certified Manufacturer is found non-complying with the provisions of the PWM Rules, 2018, the vii. Certificate shall stand cancelled
- viii. The manufacturer shall submit the complete test report of the sample, including seed germination and heavy metal analysis test (after 180 days) as per Indian Standard IS/ISO:17088 (as amended time to time) from CIPET or any other CPCB recognizedGovernment laboratory having adequate testing facility for issuing Final Certificate, failing which, the Provisional Certificate shall stand cancelled ( To be included when not complete test report not submitted)

- ix. The manufacturer shall submit a fresh complete test report of the sample within Six (6) months from the date of issue of Provisional Certificate as per Indian Standard IS/ISO:17088 (as amended time to time) from CIPET or any other CPCB recognized Government laboratory having adequate testing facilities for issuing final Certificate (To be included when the date of iinitiation of test is before grant of Consent by the SPCB/PCC)
- x. The provisional certificate is valid for a period of six months extendable by six months subject to the condition that the reasons for seeking extention as cited by the manufacturer are found valid by CPCB

(Name & designation)

## **ANNEXURE-X**

## **Format for Six monthly Report**

Duration - - - to - - -

## For manufacturer:

## 1. Details of manufacture of Compostable carrybags

S.No.	Name of the Raw material suppliers	Date of Purchase	Quantity(kg)	Supporting documents (invoice copy No.)
i.				
ii.				
iii.				

## 2. Details of sale of Compostable carrybags

S.No.	Name of the firms/distributers to which compostable carrybags sold	Date of sale	Quantity(kg)	Supporting documents (invoice copy No.)
i.				
ii.				
iii.				

## For seller:

## 1. Details of purchase of Compostable carrybags

S.No.	Name of the CPCB certified manufacturers	Date of Purchase	Quantity(kg)	Supporting documents (invoice copy No.)
i.				
ii.				
iii.				

## 2. Details of sale of Compostable carrybags

S.No.	Name of the firms/distributers to which compostable carrybags sold	Date of sale	Quantity(kg)	Supporting documents (invoice copy No.)
i.				
ii.				
iii.				

#### **ANNEXURE XI**

## INSPECTION REPORT FOR COMPOSTABLE PLASTIC MANUFACTURER

Date of Inspection:	
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01.	Name and complete Postal Address of the industry.					
02.		•	ne / Fax /			
02.	Contact Person with Telephone / Fax / E-mail.					
04.	Name & designation of the officials conducting inspection					
05.	Year of	commissioning.				
06.		tion about the industry	/			
		alled capacity				
	(b) Actu	ial production				
	c) Num	ber of employees .				
07.		of Consent to opera	`	Consent ( A	ir) :	
		Act) / Registration / Authorization ( HWN	`	Consent ( W	/ater)	
	(Validity date to be provided) ( Pl. attach copy)			Registration (PWM Rules)		
				Authorization ( HWM Rules)		
08.	Raw Ma	aterial Details				
			ption per the product	Source of procur attach supporting	` '	
	i					
	ii					
	iii					
09.	Product	ts & Bv-products detail	ls			

	SI. No.	Product/ product	Ву-	Quantity (TPD)	produced	Details regarding products sales (pl. attach supporting documents)			
40	<b>D</b>	1.6.7. 20.00	l . D'						
10.	Process	details with Bl	ock Dia	agram.					
12	Confirmation regarding marking and labelling of compostable carry bags as per provisional certificate ( Yes/No)								
13	Confirmation regarding bar coding of compostable carry bags ( Yes/no)								
13	Confirmation regarding availability of raw material for compostable carry bag ( as per provisional certificate) at the unit ( Yes/No)								
14	Confirmation regarding availability of finished product for compostable product ( as per provisional certificate) at the unit ( Yes/No)								
13.	Operation	onal status :							
23	Recomm	nendations :							
24.	Signatu	re of the visiting	g officia	als.					

#### **ANNEXURE XII**

# FORMAT FOR BI-ANNUAL REPORT ON COMPOSTABLE PLASTICS TO BE SUBMITTED BY SPCB/PCCs to CPCB

#### **DURATION:**

a b c	Number of Compostable plastic manufacturing units in the State/UT Total Production capacity of the units Information as per Six-monthly Reports submitted by the Units Number of units which have submitted Six-monthly Reports Total raw material consumption ( Tonnes for six-months period ) Actual Production of the units ( Tonnes for six-months period ) Actual Product Sales of the units ( Tonnes for six-months period )		
b c	Total Production capacity of the units  Information as per Six-monthly Reports submitted by the Units  Number of units which have submitted Six-monthly Reports  Total raw material consumption ( Tonnes for six-months period )  Actual Production of the units ( Tonnes for six-months period )		
b c	Information as per Six-monthly Reports submitted by the Units  Number of units which have submitted Six-monthly Reports  Total raw material consumption ( Tonnes for six-months period )  Actual Production of the units ( Tonnes for six-months period )		
b c	Number of units which have submitted Six-monthly Reports  Total raw material consumption ( Tonnes for six-months period )  Actual Production of the units ( Tonnes for six-months period )		
b c	Total raw material consumption ( Tonnes for six-months period )  Actual Production of the units ( Tonnes for six-months period )		
С	Actual Production of the units (Tonnes for six-months period)		
	· · · · · · · · · · · · · · · · · · ·		
d	Actual Product Sales of the units (Tonnes for six-months period )		
	· · · · · · · · · · · · · · · · · · ·		
	Inspection of Units		
	Number of Units inspected during the quarter ( Please attach the		
_	inspection report)		
a b	Number of units found complying with the provisions of PWM Rules		
	Number of units found non complying with the provisions of the unit	+	
С	Market Survey		
	Number of manufacturers whose products were available in the		
а	market		
b	Number of product samples collected from the market		
С	Number of samples found complying with labelling/ barcode		
d	Number of samples found complying with barcode requirement		
e	Number of samples tested in CIPET of recognized Govt. laboratory		
f	Number of samples found complying with the IS/OSO17088 Test		
	Action against non-complying units		
SI.	Name of the unit	Nature of non-	Action taken against the non-complying unit
No.		22	
f	61.	Number of samples found complying with labelling/ barcode Number of samples found complying with barcode requirement Number of samples tested in CIPET of recognized Govt. laboratory Number of samples found complying with the IS/OSO17088 Test Action against non-complying units  Si.	Number of samples found complying with labelling/ barcode Number of samples found complying with barcode requirement Number of samples tested in CIPET of recognized Govt. laboratory Number of samples found complying with the IS/OSO17088 Test Action against non-complying units  Nature of non-