

**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)

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Central Pollution Control Board
Delhi

CONTENT		
Serial No	Topic	Page No.
1.0	Introduction	1
2.0	SOP for issuance of Certificate	1
	2.1 Submission of application	1
	2.2 Guidance for Filling Application for Manufacturer	2
	2.3 Guidance for Filling Application for Seller	3
	2.4 Processing of application	4
	2.5 Issuing of certificate	6
	2.6 Monitoring mechanism	7
	2.7 Cancellation of Certificate	8
	2.8 Applicability of SOP	9
ANNEXURES		
I	Provisions of PWM Rules 2018 related to SOP on issue of Certificate of compostable plastics	10
II	Form- A. Format for obtaining certificate from CPCB for Compostable Carry Bags/Products by Manufacturer	11
III	Form- B. Format for obtaining certificate from CPCB for Compostable Carry Bags/Products by Seller	12
IV	Testing Protocol	13
V	Format of Undertaking	17
VI	Checklist of the Documents to be submitted along with Application	18
VII	Certificate to Manufacturer for Marketing and Selling of Compostable Carry Bags/Products	19
VIII	Certificate to Seller for Marketing and Selling of Compostable Carry Bags/Products	20
IX	Provisional Certificate to manufacturer for Manufacturing / Selling of Compostable Carry Bags/Products	21
X	Format for six monthly Report (for Manufacturer and Seller)	23
XI	Inspection Report for Compostable plastic Manufacturer	24
XII	Format For Bi-annual report on Compostable Plastics to be submitted by SPCB/PCCs to CPCB	26



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 CO₂, 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 provisions 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/seller of 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 **within three working days** of receipt of the application by CPCB

2.2. Guidance for Filling Application for manufacturer

S.No.	Item	Detail
1	Address	
	A	Name and full address along with telephone numbers, e-mail and other contact details of the Manufacturer/Manufacturing unit -Provide name and address of the manufacturer, manufacturing unit along with postal address, telephone numbers, mobile numbers, e-mail id. -All documents including Test report, Undertaking, Consent. Registration etc. to include the manufacturing unit address
	B	Mailing address with e-mail, telephone and fax number Information to be provided, if it is different from 1(a)
2	A	Registration from concerned SPCB/PCC -In accordance with Rule 13(1) of PWM Rules, 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	
	A	Raw material used (bio-based/non-bio based, nature of additive used etc.); -Name of raw material used -In case of imported material, necessary documents to be attached -Documents supporting procurement of raw material to be provided
	B	Manufacturing process along with flow diagrams -Detailed process flow diagram indicating input raw material, process steps, final products and waste streams to be provided
	C	Details of end products and by-products -Details of compostable products proposed to be manufactured at the plant
	D	Plant capacity for manufacturing compostable plastics (TPD) As per Consent to operate issued by SPCB

4	A	Test reports as per Indian Standards IS/ISO: 17088 (as amended time to time).(Annexure IV)	<ul style="list-style-type: none"> -Sample manufactured at the unit to be certified, to be sent for testing -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- Disintegration, Aerobic biodegradation, Compost testing and Heavy Metal Analysis is to be submitted
5	A	Valid Consent Order(Air & Water) from concerned SPCB/PCC	<ul style="list-style-type: none"> -In accordance with Rule 13(5) of the PWM Rules -The Consent should be valid on the date of submission of the application
6	A	Details of pollution control measures.	Measure for control of Air & water pollution and 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.No	Item	Details
1	Name and full address along with telephone numbers, e-mail and other contact details of the Seller/Selling unit	<ul style="list-style-type: none"> - Provide name and address of the Seller, Selling unit along with postal address, telephone numbers, mobile numbers, e-mail id. -All documents including Undertaking, etc. to include the Selling unit address

2	Product details			
S. No.	Name of the Product	Quantity proposed to be procured(TPA)	Details of Dealers, Stocklists and Users of the product	Name and Address of manufacturer for procurement of compostable bags
	A	B	C	D
i	-Products details which is to be marketed.	-Proposed quantity of product to be procured from CPCB certified manufacturer.	- Details of Dealers, stocklists and users of the product.	- Name and address of CPCB certified manufacturers of compostable bags from 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

- i. The application shall be examined by CPCB and queries, if any, shall be communicated to the applicant **within seven working days** 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:

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

2	Registration		Date of issue
			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 other Govt. laboratory authorized by CPCB)		Date of sample submission for testing
a	Name & address of the unit included		
b	Disintegration during testing		Disintegration during testing :
c	Ultimate aerobic Biodegradation		Ultimate aerobic Biodegradation
d	Seed Germination		Seed Germination
e	Heavy Metal Analysis		Heavy Metal Analysis
6	Details of raw material & Documents supporting procurement of raw material		
7	Detail of end product & by product and documents supporting sale of end-products		
9	Undertaking		As per Annexure-V
10	Recommended(Yes/No)		

Checklist for Seller:

Sl. No	Item	Provided (Yes/No)	Remarks
1	Form B		Date of Submission:
			Other:
2	Authorization letter issued to seller by manufacturer		
3	Registration issued by SPCB/PCC to concerned manufacturer as per Rule 13(1) of Plastic Waste Management,2018 for manufacturing of compostable carrybags.		Date of issue
			Date till which the certificate is valid
			Issued for compostable plastics/bags (Y/N)
			Other
4	CPCB certificate issued to manufacturer		Date of issue
			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 VII 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 registration 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 complete 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 extension 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 i-v, 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

- i. 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 Certificate 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

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

The following are the Provisions 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 for Compostable 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: 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 diagrams	
(c)	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 laboratory having adequate testing facilities.	
5	Valid Consent Order from concerned SPCB/PCC	a. Air Consent 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:
Place:

Signature of the Applicant
(with seal)

ANNEXURE III

Form- B. Format for obtaining 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 Details	Address:		
		Contact No:		
		email:		
		Tel-fax:		
2.	Product details			
S. No.	Name of the Product	Quantity proposed to be procured(TPA)	Details of Dealers, Stocklists and Users of the product	Name and Address of manufacturer for procurement of compostable bags
	A	B	C	D
i.				
ii.				
iii.				
iv.				
v.				

3. 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:
Place:

Signature of the Seller
(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 of plastics, and products made from plastics, that are suitable for recovery through aerobic composting. The following 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 regulated metals 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 "**compostable in 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.

2.0 Terms and definitions:

- I. **Biodegradable during composting:** Material that undergoes degradation by biological processes during composting to yield CO₂, water, inorganic compounds & 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 in 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:17088 specification is to establish standards for 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 for termination is **45 days**, but the test could continue for up to **six months**.

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 not readily 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 support plant growth, when compared to blank composts to which no test or reference substance has been added at the start of testing. In order to ensure that the composting of plastic products or materials does not have any harmful effects 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 material shall be <50 % of those prescribed for sludges, fertilizers and composts in the country where the final product 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 added at 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, upon decomposition, release unacceptably high levels of regulated metals or other toxic substances into the environment. It is the responsibility 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 plastics which meet this specification unless the conditions typically found in composting and described in ISO:14855-1 Amended SOP: 26-12-2019 Included (for example "biodegradable during composting").

Disintegration during composting:

A plastic product is considered to have demonstrated satisfactory disintegration if, after 84 days in a controlled composting test, no more than 10 % of its original dry mass remains after sieving through a 2mm sieve. The test shall be carried out in accordance with ISO 16929, ISO-20200, ISO-14855-1 or ASTM-D5338 under thermophilic composting conditions without the CO₂-trapping equipment.

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 (CO₂) 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) shall have been converted to carbon dioxide by the end of the test period. Both the positive control and the test sample shall be composted for the same length of time and the results compared at the same point in time after the activity of both has reached a plateau. The positive control used shall be microcrystalline cellulose.
- iii. As an alternative, 90 % (in absolute terms) of the organic carbon shall have been converted to carbon dioxide by the end of the test period.
- iv. The test period shall be no longer than **180 days**.

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 other toxic 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-----registered manufacturing unit at address -----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)

Checklist of documents to be submitted along with Application :

A. Manufacturer

- a) Duly filled Form-A.
- b) 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 manufacturers 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 Management 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.

ANNEXURE VII

Certificate No.-

Dated:

To,

M/s....

Sub: Certificate to manufacturer for Manufacturing / 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. 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 valid 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:

To,

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

- i. 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 registered 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

Certificate No.-

Dated:

To,

M/s....

Sub: Provisional Certificate to manufacturer for Manufacturing / 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
- v. 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
- vi. 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 valid registration is not submitted along with the application)**
- vii. If the certified Manufacturer is found non-complying with the provisions of the PWM Rules, 2018, the 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 recognized Government 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: _____

01.	Name and complete Postal Address of the industry.			
02.	Contact Person with Telephone / Fax / E-mail.			
04.	Name & designation of the officials conducting inspection			
05.	Year of commissioning.			
06.	Information about the industry			
	(a) Installed capacity			
	(b) Actual production			
	c) Number of employees .			
07.	Status of Consent to operate(Air& Water Act) / Registration (PWM Rules) / Authorization (HWM Rules) (Validity date to be provided) (Pl. attach copy)		Consent (Air) :	
			Consent (Water)	
			Registration (PWM Rules)	
			Authorization (HWM Rules)	
08.	Raw Material Details			
	Sl. No	Raw material	Consumption per tonne of the product	Source of procurement (pl. attach supporting document)
	i			
	ii			
	iii			
09.	Products & By-products details			

	Sl. No.	Product/ product	By-	Quantity produced (TPD)	Details regarding products sales (pl. attach supporting documents)
10.	Process details with Block Diagram.				
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.	<i>Operational status :</i>				
23	Recommendations :				
24.	Signature of the visiting officials.				

ANNEXURE XII

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

DURATION :

Sl.No	Item	Remarks	
1	Number of Compostable plastic manufacturing units in the State/UT		
2	Total Production capacity of the units		
3	Information as per Six-monthly Reports submitted by the Units		
a	Number of units which have submitted Six-monthly Reports		
b	Total raw material consumption (Tonnes for six-months period)		
c	Actual Production of the units (Tonnes for six-months period)		
d	Actual Product Sales of the units(Tonnes for six-months period)		
4	Inspection of Units		
a	Number of Units inspected during the quarter (Please attach the inspection report)		
b	Number of units found complying with the provisions of PWM Rules		
c	Number of units found non complying with the provisions of the unit		
5	Market Survey		
a	Number of manufacturers whose products were available in the market		
b	Number of product samples collected from the market		
c	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		
6	Action against non-complying units		
Sl. No.	Name of the unit	Nature of non-compliance	Action taken against the non-complying unit