



**PRODUCT MANUAL
FOR ROASTED CHICORY POWDER
ACCORDING TO IS 612:1992**

1.	Product	:	IS 612:1992
	Title	:	Roasted chicory powder
	No. of Amendments	:	1
2	Sampling Guidelines		
a)	Raw Material	:	The material shall be made by roasting and grinding suitably cleaned, dried and graded chips of chicory roots.
b)	Grouping Guidelines	:	NA (No varieties of the product mentioned in IS)
c)	Sample Size	:	2 x 250gram
3	List of Test Equipments	:	Please refer ANNEX-A
4	Scheme of Inspection and Testing	:	Please refer ANNEX-B
5	Possible Test in a Day	:	a) Cup test b) Total ash content c) Microscope Appearance of Roasted Chicory Powder d) Moisture content e) Acid soluble ash f) Description
6	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 612:1992 with the following scope:		
	Name of the product		Roasted Chicory Powder

**ANNEX-A
TO PRODUCT MANUAL
FOR ROASTED CHICORY POWDER ACCORDING TO IS 612:1992**

SL.NO	Test used in with clause Reference	
1	Analytical Balance, glazed porcelain cup of 250 ml capacity with lid, stirrer, table spoon, Heater, Test Tube, Cup	Cup test Cl 3.2
2	Microscope with eye piece micrometer, Microscope Slides, Cover Glasses (circular or square), Sodium Hydroxide Solution, Collodion, Schiff's Reagent, Analytical Balance, Glass rod, HCl-1N, Sodium Bisulphite, beaker, glass rod, heating arrangement, Ethyl Alcohol	Microscopic appearance Cl 3.3
3	Analytical Balance, Dish (about 8.5 cm in diameter) Oven, Desiccator	Moisture Cl 3.5, Table 1
4	Muffle Furnace, Desiccator, Weighing balance	Total ash Cl 3.5, Table 1
5	Dilute HCl, Test Tube, Watch glass, Water bath, Whatman filter paper No. 42, Oven capable of maintaining $100 \pm 2^{\circ}\text{C}$ Muffle Furnace	Acid insoluble ash Cl 3.5, Table 1
6	Analytical Balance, Erlenmeyer flask, Heater, Reflux system, Volumetric flask(250ml), Whatman No filter paper, Oven capable of maintaining $100 \pm 2^{\circ}\text{C}$.	Water soluble mater Cl 3.5, Table 1

LIST OF TEST EQUIPMENTS

**Major test equipment required to test as per the Indian Standard
List above is only indicative and may not be taken as exhaustive.**

ANNEX-B
SCHEME OF TESTING AND INSPECTION
FOR
ROASTED CHICORY POWDER ACCORDING TO IS 612:1992

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipments.

2. TEST RECORDS –The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. PACKING AND MARKING– The Standard Mark, as given in the Schedule of the licence, shall be stenciled/printed on each package of Roasted Chicory Powder, provided always that the material in each package to which this mark is thus applied, conform to every requirement of the specification.

3.1 Packing and marking shall be done as per the provision of the Indian Standard. In addition, the following details shall be mentioned on each package legibly and indelibly:

a) BIS Licence No. CM/L_____

b) BIS website details i.e –“For details of BIS certification please visit www.bis.gov.in”.

4. CONTROL UNIT – For the purpose of this scheme, entire quantity of Roasted Chicory Powder manufactured under similar condition from a day’s production of extract shall constitute one control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. HYGIENIC CONDITIONS- The material shall be manufactured in premises maintained under hygienic conditions (see IS 2491). The handling equipment like roaster, grinders and packing equipment shall be clean and free from any objectionable odour.

7. REJECTIONS– Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1
LEVEL OF CONTROL

(1)				(2)	3		
Test Details				Test equipment requirement R: Required (or) S: Subcontracting permitted	Levels of Control		
Cl.	Requirements	Test Method Cl. Ref.	Test Method IS		No. of Sample	Frequency	Remarks
3.1	Description	3.1	IS 612	R	one	Once every hour	
3.2	Cup Test	Annex A	IS 612	R	one	-do-	
3.3	Microscopic Appearance	Annex B	IS 612	R	one	-do-	
3.5	Moisture	Annex C	IS 612	R	one	Every four hours	
3.5	Total Ash	Annex D	IS 612	R	one	Each Control Unit	
3.5	Acid Insoluble Ash	Annex E	IS 612	R	one	-do-	
3.5	Water Soluble Matter	Annex F	IS 612	R	one	Once every hour	

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.