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Indian Standard

ROASTED COFFEE-CHICORY POWDER — SPECIFICATION

( First Revision )

UDC 663’94
AMENDMENT NO. 1 OCTOBER 1995
TO
IS 3802: 1992 ROASTED COFFEE-CHICORY POWDER — SPECIFICATION
(First Revision)

(Second cover page, Foreword, para 3) — Add the following paras after para 3:

‘A scheme for labelling environment friendly products with the ECO logo has been introduced at the instance of the Ministry of Environment and Forests (MEF), Government of India. The ECO Mark would be administered by the Bureau of Indian Standards (BIS) under the BIS Act, 1986 as per the Resolution No. 71 dated 20 February 1991 as published in the Gazette of the Government of India vide GSR No. 85(E) dated 21 February 1991. For a product to be eligible for ECO logo it shall also carry the Standard Mark of BIS for quality besides meeting additional optional environment friendly (EF) requirements. The EF requirements for roasted coffee-chicory powder are, therefore, being included through an Amendment No. 1 to this standard.

This amendment is based on the Gazette Notification No. 600 dated 6 February 1993 for Edible Oils, Tea and Coffee as environment friendly products, published in the Gazette of the Government of India inviting comments.’

(Page 1, clause 3.4) — Substitute ‘3.5’ for ‘3.4’, occurring after ‘Hygienic Conditions’ clause.

(Page 1, clause 3.5) — Add the following clauses after clause 3.5:

‘3.6 Optional Requirements for ECO Mark

3.6.1 General Requirements

3.6.1.1 The product shall conform to the requirements prescribed under clauses 3.1 to 3.5.

3.6.1.2 The manufacturers shall produce to BIS environmental consent clearance from the concerned State Pollution Control Board as per the provisions of the Water (Prevention and Control of Pollution) Act, 1974; Air (Prevention and Control of Pollution) Act, 1981; along with the authorization, if required under the Environment (Protection) Act, 1986, while applying for ECO Mark. The product shall also conform to the requirements laid down under the prevention of Food Adulteration Act, 1954 and the Rules made thereunder.

1
Amend No. 1 to IS 3802 : 1992

3.6.2 Specific Requirements

3.6.2.1 The product shall be free from infestation due to insects, fungus and rodents.

3.6.2.2 The product shall be free from extraneous matter like strings, stones, dirt, wood, glass and metallic pieces and from any added colouring and flavouring. It shall also be free from rancidity and shall have its characteristic flavour.

3.6.2.3 The product shall be free from adulterants like dandelion (excluding chicory), acorns, figs, dates, stones and cereals.

3.6.2.4 The pesticide residues in the product shall not exceed the limits given below when tested by the methods as shown against each:

<table>
<thead>
<tr>
<th>Name of Pesticide</th>
<th>Tolerance Limit</th>
<th>Method of Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monocrotophos</td>
<td>0.1 mg/kg</td>
<td>IS 11374:1985</td>
</tr>
</tbody>
</table>

(Page 1, clause 4.1) — Add the following clause after 4.1:

'4.1.1 For ECO Mark the product shall be packed in packages which are made from recyclable, reusable or bio-degradable materials which shall be declared by the manufacturer and may be accompanied with detailed instructions for proper use.'

(Page 2, clause 4.2) — Add the following clause 4.2.1 and renumber the subsequent clause:

'4.2.1 The following additional information shall also be marked on the label for ECO Mark:

a) List of following critical ingredients in descending order of quantity, percent by mass:
   i) Coffee
   ii) Chicory

b) The criteria for which the product has been labelled for ECO Mark.'
AMENDMENT NO. 2 JANUARY 2007
TO
IS 3802 : 1992 ROASTED COFFEE-CHICORY
POWDER — SPECIFICATION

(First Revision)

(Page 1, clause 2) — Add ‘IS 1699 : 1995 Methods of sampling and tests for food colours (second revision)’ at the appropriate place.

[Page 1, clause 3.6 (see Amendment No. 1)] — Add the following new clause after 3.6:

‘3.7 The copper content in roasted coffee chicory powder shall not exceed 30 ppm when tested by atomic absorption spectrophotometer as per the method prescribed in 15.1 of IS 1699.’

(FAD 6)
FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Stimulant Foods Sectional Committee had been approved by the Food and Agriculture Division Council.

The roasted and ground coffee powder is obtained by roasting pure coffee seeds under suitable conditions so as to develop full coffee aroma. The seeds after roasting are ground to suitable particle sizes. Roasted and ground chicory is made by roasting and powdering suitably cleaned and dried roots of *Cichorium intybus* Linn.

This standard was first issued in 1966. In view of the technological advances, the standard is being revised. In the revised version a requirement for moisture has been included and requirements for acid insoluble ash and water soluble matter modified. In the revised version the 'best before' date (to be declared by the manufacturer) has been included as 'optional' under the labelling clause. Shelf life studies of roasted coffee-chicory powder and other similar products are being organized under different conditions. After completion of these studies, the relevant technical committee will reconsider the issue for making this declaration mandatory under the provisions of this standard.

While formulating this standard, due consideration has been given to the relevant rules issued by the Government of India under the *Prevention of Food Adulteration Act, 1954* and the *Standards of Weights and Measures (Packaged Commodities) Rules, 1977*. This standard is, however, subject to the restrictions imposed under these Rules, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.
Indian Standard
ROASTED COFFEE-CHICORY POWDER —
SPECIFICATION
( First Revision )

1 SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for roasted coffee-chicory powder.

2 REFERENCES

2.1 The following Indian Standards are necessary adjuncts to this standard:

<table>
<thead>
<tr>
<th>IS No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>612 : 1992</td>
<td>Roasted chicory powder ( third revision )</td>
</tr>
<tr>
<td>1070 : 1977</td>
<td>Water for general laboratory use ( second revision )</td>
</tr>
<tr>
<td>2491 : 1972</td>
<td>Code for hygienic conditions for food processing units ( first revision )</td>
</tr>
<tr>
<td>2791 : 1992</td>
<td>Soluble coffee powder ( third revision )</td>
</tr>
<tr>
<td>3077 : 1992</td>
<td>Roasted and ground coffee ( second revision )</td>
</tr>
</tbody>
</table>

3 REQUIREMENTS

3.1 The material shall be prepared by mixing roasted and ground coffee and roasted and ground chicory in a clean and hygienic manner. The product shall be in the form of a free flowing powder having the colour, taste and flavour characteristic of coffee-chicory powder. It shall not contain any impurities or additives to coffee other than chicory. The coffee content in the roasted coffee chicory powder shall not be less than 51 percent by mass.

3.2 Roasted and ground coffee and roasted and ground chicory used in the preparation of coffee chicory powder shall conform to IS 3077 : 1992 and IS 612 : 1992 respectively.

3.2.1 Microscopic Appearance

When examined under the microscope, the characteristic appearance of roasted coffee powder shall be seen as described in 3.4 of IS 3077 : 1992 and of chicory powder shall be seen as described in 3.3 of IS 612 : 1992.

3.3 Cup Test

The material shall be evaluated for cup test according to the procedure prescribed in Appendix B of IS 3077 : 1992.

3.4 Hygienic Conditions

The material shall be manufactured in premises built and maintained under hygienic conditions ( see IS 2491 : 1972 ). The handling equipment like roasters, grinders, filters, etc, shall be clean and free from any objectionable odour.

3.4 The material shall also comply with requirements given in Table 1.

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Characteristics</th>
<th>Requirement</th>
<th>Method of Test, Ref to Annex of IS 3077 : 1992</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Moisture percent by mass ( on dry basis ), Max</td>
<td>5</td>
<td>E</td>
</tr>
<tr>
<td>(2)</td>
<td>Total ash, percent by mass ( on dry basis )</td>
<td>3 to 7.50</td>
<td>F</td>
</tr>
<tr>
<td>(3)</td>
<td>Acid insoluble ash ( on dry basis ), percent by mass, Max</td>
<td>0.6</td>
<td>G</td>
</tr>
<tr>
<td>(4)</td>
<td>Water soluble matter ( on dry basis ), percent by mass</td>
<td>30.0 to 50.0</td>
<td>K</td>
</tr>
<tr>
<td>(5)</td>
<td>Caffeine ( on dry basis ), percent by mass, Min</td>
<td>0.60</td>
<td>L</td>
</tr>
</tbody>
</table>

4 PACKING AND MARKING

4.1 Packing

The material shall be packed in 25 g, 50 g, 100 g, 200 g, 500 g, and 1 kg and multiples thereof in air-tight tin-plate or glass containers or in suitable metal foil or other laminate containers with food grade plastic lining. Where metal foil or other laminate containers with food grade plastic lining are used, a cautionary note to the following effect shall be printed:

'Once opened, transfer contents immediately into air-tight container'.

NOTE — Other food grade packaging material can be used subject to their suitability being established.
4.2 Marking

The following particulars shall be marked legibly and indelibly on the label of the container:

a) Name of material;
b) Name and address of the manufacturer;
c) Batch or code number;
d) Net mass of contents;
e) Month of manufacture;
f) Best before—__(date to be given by manufacturer); (optional)
g) List of ingredients;
h) Declaration of coffee and chicory in the mix;
j) The following cautionary Note shall be printed on the flexible containers:
   'Once opened, transfer contents immediately into air-tight container'; and
k) Any other requirements laid down under the Standards of Weight and Measures (Packaged Commodities) Rules, 1977/Prevention of Food Adulteration Rules 1955.

4.2.1 Standard Mark

The container may also be marked with the Standard Mark.

5 SAMPLING

Representative samples of the material shall be drawn and criteria for ascertaining conformity of the material to the requirements of this specification shall be as prescribed in Annex F of IS 2791:1992.

6 TESTS

6.1 Tests shall be carried out as prescribed in 3.2.1, 3.3 and annexes specified in col 4 of Table 1.

6.2 Quality of Reagents

Unless specified otherwise, pure chemicals shall be employed in tests and distilled water (see IS 1070:1977) shall be used where the use of water as a reagent is intended.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.
Standard Mark

The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.
Bureau of Indian Standards

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Doc : No. FAD 23 (4154)

Amendments Issued Since Publication

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<thead>
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<th>Amend No.</th>
<th>Date of Issue</th>
<th>Text Affected</th>
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BUREAU OF INDIAN STANDARDS

Headquarters:
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones: 331 01 31, 331 13 75

Regional Offices:
Central: Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002
Telephone: 331 01 31, 331 13 75

Eastern: 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola, CALCUTTA 700054
Telegram: Manaksanstha (Common to all Offices)

Northern: SCO 445-446, Sector 35-C, CHANDIGARH 160036
Telephone: 53 38 43, 53 16 40, 53 23 84

Southern: C. I. T. Campus, IV Cross Road, MADRAS 600113
Telephone: 235 02 16, 235 04 42, 235 15 19, 235 23 15

Western: Manakalaya, E9 MIDC, Marol, Andheri ( East ), BOMBAY 400 093
Telephone: 632 92 95, 632 78 58, 632 78 91, 632 78 92

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