

Draft *Indian Standard*
CHILGOZA NUTS - SPECIFICATION
ICS No. 67.080.10

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FOREWORD

(adoption clause will be added later)

Chilgoza nuts are highly nutritious nuts having carminative, stimulant and expectorant properties.

This Indian Standard on Chilgoza nuts is aimed at proposing grade standards which will help the farmers trade their produce at remunerative prices at national and international level.

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.

1 SCOPE

The standard specifies requirements and methods of sampling and test for chilgoza nuts obtained from chilgoza cones (*Pinus gerardiana*).

2 REFERENCE

The following standards contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated.

IS No.

Title

7750: 1975

Specification for cashew kernels

3 REQUIREMENTS

3.1 General Characteristics - The chilgoza nuts shall be extracted from sound cones after drying. The nuts shall be reasonably dry having less than 0.09 a_w. They shall have the characteristic shape and shall be free from resinous material.

3.2 Freedom from Mould, Insects, etc- The nuts shall be free from living insects and moulds and shall be practically free from dead insects, insect fragments and rodent contamination visible to naked eye (corrected if necessary, for abnormal vision) with such magnification as may be necessary in any particular case. If the magnification exceeds x 10, this fact should be stated in test report.

3.3 Extraneous material - The Chilgoza nuts shall be practically free from rosin and other extraneous material, such as stones, dirt or any other foreign matter.

3.4 Grade – The grade designations trade names and characteristics of chilgoza nuts are given in Annex A.

3.5 The pesticide residues, heavy metals, aflatoxins etc., if any in the product shall not exceed the limit as prescribed in *Prevention of Food Adulteration Act, 1954* and the Rules made thereunder. Additionally, *Prevention of Food Adulteration Act, 1954* and *Standards of Weights and Measures Act, 1977* requirements wherever applicable has to be complied with.

4 PACKING AND MARKING

4.1 Packing

The chilgoza nuts shall be packed in new, clean, dry and leak proof containers and the containers shall be securely closed and sealed in such a manner that the chilgoza nuts remain in inert atmospheric conditions inside the container.

4.2 Marking

The following particulars should be marked or labeled on each container:

- a) Name of the material;
- b) Name and address of the packer/manufacturer;
- c) Net quantity;
- d) Grade of the material;
- e) Name of the country, where packed; and
- f) Any other marking required by the purchaser.
- g) Any other requirements as given under the *Standards of Weights and Measures (Packaged Commodities) Rules, 1977* and *Prevention of Food Adulteration Act, 1955* and Rules;

4.2.1 BIS Certification Marking

The product may also be marked with the Standard Mark.

4.2.1.1 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 details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

5 SAMPLING

Representative samples of the material for testing the conformity of this specification shall be drawn according to the methods given in Appendix A of IS 7750.

6 METHOD

6.1 Samples of chilgoza nuts should be tested for conformity with the requirements of this specification by visual examination. In respect of grades (Extra to Small) (*see A-1*), the count should be checked by weighing 100 gram of the material and counting the nuts. Percentage of nuts of the next lower grade, if any should also be ascertained and recorded. In respect of quality grades (*see A-2*), the samples should be checked for the surface colour visually. Whereas, in salted nuts the samples should be checked for the salt content conducting sensor' evaluation of the sample (*see A-3 and A-4*). The acceptable concentration of salt in the sample should be less than 1.0 percent.

ANNEX A GRADE DESIGNATIONS, TRADE NAMES AND CHARACTERISTICS OF CHILGOZA NUTS

A-1 CHILGOZA NUTS

Sl No.	Grade Designation	Number of nuts per 100 gm	Average length (mm)	Characteristics
(1)	(2)	(3)	(4)	(5)
i)	Extra	200-240	24	The chilgoza nuts should have the characteristic shape, dark brown in colour reasonably dry and free from rosin and damaged nuts.
ii)	Usual	255-275	18	
iii)	Small	380-420	13	

NOTE - Nuts of next lower grade if any shall not exceed 5 percent by weight.

A-2 SURFACE IMPROVED CHILGOZA NUTS

Sl No.	Grade Designation (According to Size)	Number of nuts per 100 gm	Average length (mm)	Grade Designation (According to Quality)	Characteristics
(1)	(2)	(3)	(4)	(5)	(6)
i)	Extra	200-240	24	AAA, AA, A	The chilgoza nuts should have the characteristic shape, cream white in colour reasonably dry and free from damaged nuts.
ii)	Usual	255-275	18	AAA, AA, A	
iii)	Small	380-420	13	AAA, AA, A	

AAA — 80 percent and above cream white

AA — 40-80 percent cream white

A — 40 percent and below cream white

NOTE - Nuts of next lower grade if any shall not exceed 5 percent by weight.

A-3 SALTED CHILGOZA NUTS

Sl No.	Grade Designation	Number of nuts per 100 gm	Average length (mm)	Characteristics
(1)	(2)	(3)	(4)	(5)
i)	Extra	200-240	24	The chilgoza nuts should have the characteristic shape, dark brown in colour reasonably dry and free from adhered salt and damaged nuts. Salt concentration on the kernels should not exceed 1.0 percent.
ii)	Usual	250-270	18	
iii)	Small	380-410	13	

NOTE - Nuts of next lower grade if any shall not exceed 5 percent by weight.

A-4 SALTED SURFACE IMPROVED CHILGOZA NUTS

Sl No.	Grade Designation	Number of nuts per 100 gm	Average length (mm)	Grade Designation (According to Quality)	Characteristics
(1)	(2)	(3)	(4)	(5)	(6)
i)	Extra	200-240	24	AAA, AA, A	The chilgoza nuts should have the characteristic shape, cream white in colour reasonably dry and free from adhered salt and damaged nuts. Salt concentration on the kernels should not exceed 1.0 percent.
ii)	Usual	250-270	18	AAA, AA, A	
iii)	Small	380-410	13	AAA, AA, A	

AAA — 80 percent and above cream white

AA — 40-80 percent cream white

A — 40 percent and below cream white