

“Schedule- XXXIII

(See rule 4)

Grade designation and quality of Cloves (Laung) (Whole)

Grade Designation	Quality								General Characteristics
	Special Characteristics (per cent. by mass)								
	Organic extraneous matter (Maximum)	Inorganic extraneous matter (Maximum)	Tendrils, Mother Cloves (Maximum)	Khoker Cloves (Maximum)	Moisture (Maximum)	Volatile oil content on dry basis ml/100gm (Minimum)	Headless Cloves (Maximum)	Insect damaged Cloves (Maximum)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Special	0.50	0.05	1.0	1.0	9.0	18.0	1.0	Nil	1) Cloves Whole (Laung) means the dried unopened flower buds of clove tree, <i>Syzygium aromaticum</i> (L.) Merril et L. M. perry syn. [<i>Eugenia caryophyllus</i> (C.Sprengel)] Bullock and Harrision. (2) It shall - (a) be of reddish brown to blackish brown colour; (b) have a strong aromatic, spicy odour and characteristic flavour; (c) be free from off-flavour, rancid taste, mustiness, mould growth, living and dead insects, insect fragment, insect infestation and rodent contamination.
Standard	0.75	0.10	1.5	1.5	10.0	17.5	1.5	1.0	
General	0.75	0.25	2.0	2.0	11.0	17.0	2.0	2.0	

									(d) be free from added colouring matter and coating of mineral oil and any other harmful substances. (3) It shall comply with the restrictions in regard to residual levels of metal contaminants, insecticides and pesticides residues, microbial requirements, crop contaminants, naturally occurring toxic substances and other food safety requirements as specified under the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and Food Safety and Standards (Food Product Standards and Food Additives) Regulations, 2011 and various regulations covered under Food Safety & Standards Act-2006 (34 of 2006) for domestic trade. (4) It shall comply with
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									the residual limits of heavy metals, pesticides and other food safety requirements as laid down by the Codex Alimentarius Commission, or importing countries requirement for exports. (5) The condition of the Cloves whole shall be such so as to enable it - (a) to withstand transport and handling; and (b) to arrive in satisfactory condition at the place of destination. (6) It shall be stored in a cool and dry place; maintained in a clean and hygienic condition.
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Explanations:

- (a) Organic extraneous matter includes chaff, stems, straw, all the vegetative parts of cloves plants; other than cloves includes tendrils, peduncles, clove stems, mother cloves and exhausted cloves.
- (b) Inorganic extraneous matter such as dust, dirt, stones and lumps of earth.
- (c) Headless Cloves: A Clove consisting of only the receptacle and sepals and which has lost the domed shaped head.
- (d) Khoker Cloves: A Clove which has undergone fermentation as a result of incomplete drying as evidenced by its pale brown colour whitish mealy appearance and other wrinkled surface.
- (e) Mother Cloves: A fruit in the form of an ovoid brown berry surmounted by four incurved sepals.
- (f) Insect damaged Cloves: A Clove internally or partly bored or damaged by insect.

Note: Volatile Oil shall be determined immediately after grinding.

Schedule - XXXIV

(See rule 4)

Grade designation and quality of Cloves (Laung) (Powder)

Grade Designation	Quality					General Characteristics
	Special Characteristics (per cent. by mass)					
	Moisture (Maximum)	Total Ash on dry basis (Maximum)	Acid Insoluble Ash on dry basis (Maximum)	Volatile oil content on dry basis ml/100gm (Minimum)	Crude fibre (Maximum)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Special	8.0	6.0	0.3	17.0	11.0	(1) Cloves (Laung) powder means the powder obtained by grinding the dried unopened flower buds of <i>Syzygium aromaticum</i> (L.) Merrill et L. M. perry syn. [<i>Eugenia caryophyllus</i> (C.Sprengel)] <u>Bullock and Harrison</u> . (2) It shall:- (a) be of a brown colour with a violet tinge; (b) have a strong spicy aromatic odour and characteristic flavour; (c) be free from off-flavour, rancid taste and mustiness; (d) be free from mould growth, living and dead insects, insect fragments, insect infestation and rodent contamination; (e) be free from added colouring matter, preservative or foreign starch; (f) be free from lumps . (3) It shall comply with the restrictions in regard to residual levels of metal contaminants, insecticides and pesticides residues, microbial requirements, crop contaminants, naturally occurring toxic substances and other food safety requirements as specified under the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and Food Safety and Standards (Food Product Standards and Food Additives) Regulations, 2011 and various regulations covered under Food Safety & Standards Act-2006 (34 of 2006) for domestic trade. (4) It shall comply with the residual limits of heavy metals, pesticides and other food safety requirements as laid down by the Codex Alimentarius Commission, or importing countries requirement for exports.
Standard	10.0	7.0	0.5	16.0	13.0	