

Assaying parameters of WDRA notified commodities traded on NCDEX Platform

(AP = Assaying Parameter)

Commodity Code: 1 – Wheat (AGMARK)

	AP I	AP II	AP III	AP IV	AP V	AP VI	AP VII
Grades	Foreign Matter (% by weight)	Other Food Grains (% by weight)	Other Wheats (% by weight)	Damaged Grains (% by weight)	Slightly Damaged Grains (% by weight)	Immature Shrivelled Broken Grains (% by weight)	Weevilled Grains (% by weight)
I	1.5	1.6	5	1	2	2	1
II	2.5	3	15	2	4	4	3
III	3.5	6	20	4	6	10	6
IV	4	8	over 20	5	10	over 10	10

General Characteristics:-

- (a) Wheat shall be the dried grains of *Triticum vulgare* and *Triticum durum* Desf.
- (b) Have uniform size, shape and colour,
- (c) Be sweet, hard, clean, wholesome and free from moulds weevils, obnoxious and all other impurities from moulds extent indicated in the Schedule;
- (d) Be in sound merchantable condition; and
- (e) Not have moisture exceeding 12%

Commodity Code: 4 – Maize (AGMARK)

	API	AP II	AP III	AP IV	AP V	AP VI	AP VII
Grades	Moisture	Foreign Matter		Other Edible Grains	Damaged Grains	Immature and Shrivelled Grains	Weevilled Grains
		organic	inorganic				
grade I	12	0.1	Nil	0.5	5	2.0	2
grade II	12	0.25	0.1	1	10	4.0	4

grade III	14	0.5	0.25	2	15	6.0	6
grade IV	14	0.75	0.25	3	15	6.0	8

General Characteristics:-

- (a) Be the dried mature grain of *Zea mays* L.
- (b) Be sweet, hard, clean, wholesome uniform in size, shape, colour and in sound merchantable condition;
- (c) Be free from added colouring matter, moulds, weevils, obnoxious substances, discolouration, poisonous seeds and all other impurities except to the extent indicated in the schedule;
- (d) Uric acid and aflatoxin shall not exceed 100 miligrams and 30 micrograms per kilogram respectively;
- (e) Be free from rodent hair and excreta;
- (f) Comply with the restrictions in regard to pesticides / insecticides residue (Rule 65), poisonous metals (Rule 57), naturally occurring toxic substances (Rule 57-B) and other provisions prescribed under the Prevention of Food Adulteration Rules, 1955 and as amended from time to time.

Commodity Code: 6 – Chana Whole (Bengal Gram) (Gram) (AGMARK)

	API	AP II		AP III	AP IV	AP V
Grades	Moisture	Foreign Matter		Other Edible Grains	Damaged Grains	Weevilled Grains
		organic	inorganic			
special	10	0.1	nil	0.5	0.5	3
standard	12	0.5	0.1	2	2	6
general	16	0.75	0.25	4	5	10

General Characteristics:-

- (a) Be the dried mature grain of (*Cicer arietinum* L)
- (b) Have uniform size, shape and colour (Yellow/brown);
- (c) Be sweet, hard, clean, wholesome and free from moulds weevils, obnoxious smell, discolouration, admixture of deleterious substances, all other impurities except to the extent indicated in the Schedule;
- (d) Be in sound merchantable condition; and

(e) Not have moisture exceeding 12 percent.

Commodity Code: 12 – Mustard (AGMARK)

	AP I	AP II	AP III	AP IV	AP V
Grade designation	Foreign matter	Dead, discoloured & damaged	Unripe shriveled and slightly damaged	Small atrophied seeds	Admixture of other varieties of mustard
1	2	3	4	5	6
Special	1	1	1.5	5	5
Standard	2	1.5	3	10	10
General	3	2	4	20	15

General Characteristics:-

The seeds shall

- (a) Have shape, size, colour and pungency characteristic of the variety /form.
- (b) Be mature, hard, wholesome and well dried, moisture not exceeding 6 percent.
- (c) Not have any trace of Argemone seeds.
- (d) Be free from moulds or insect damage and deleterious substances.
- (e) Not bear the grains of any other species, and
- (f) Be in a sound merchantable condition.

Commodity Code: 13 – Soyabean (AGMARK)

Grade designations	Special Requirements							
	Oil content on dry basis	Acid value of	Moisture content percent	Damaged discoloured	Immature shrivelled	Splits broken cracked beans	Inorganic foreign matter	Organic foreign matter

	percent by weight	oil	by weight	insect infested beans percent by weight	beans percent by weight	percent by weight	percent by weight	percent by weight
	Minimum	Maximum	Maximum	Maximum	Maximum	Maximum	Maximum	Maximum
Grade –I	20	3	10	1	2	5	0.5	0.5
Grade-II	18	4	12	2	3	10	0.5	0.5
Grade - III	15	6	12	3	5	20	0.5	1.5

General Characteristics:-

- (a) the mature, dried, clean and wholesome seeds of the plant *Glycine max* (L) Merrill;
- (b) of uniform size , shape and colour characteristic of the variety;
- (c) free from mould, musty odour or added colouring matter;
- (d) completely free from admixture of any poisonous, toxic, harmful or non-edible seeds like neem, argemone, khesari, castor, mahua, etc; 11
- (e) free from pesticides/insecticide residue, except to the extent permissible under the PFA Rules and shall not contain uric acid exceeding 100 mg/kg and mycotoxin including aflatoxin exceeding 30 micrograms per kilogram.

Commodity Code: 15 – Cotton Bales (AGMARK)

Grades	AP I	AP II
	Special Characteristics	General Characteristics

<p>Agmark Certified Pedigreed (Red Label)</p>	<p>(a) Shall be the product derived from kapas (seed cotton indicated in Schedule I grown on a Government farm or by a registered seed grower licensed by the appropriate Government Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India for the purpose and which had been derived from pure seed supplied by a Government Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India for the purpose and crop of which shall have been inspected and recognized wherever necessary and duly certified by the appropriate Government Department or by any other agency to be recognized by the Agricultural marketing Adviser to the Government of India, for the purpose as being at least 98% pure; and</p> <p>(b) Shall have been ginned and pressed under direct supervision of the appropriate Government Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India for the purpose.</p>	<p>(a) Shall consist of lint (in full pressed bales obtained by machine ginning of the kapas:-</p> <p>(b) Shall be clean and reasonably free from leaf, seed, stain or other imperfections;</p> <p>(c) Shall be dry and free from a trace added moisture.</p>
<p>Agmark Certified (Black Label)</p>	<p>(a) Shall be the product derived from kapas (seed cotton) indicated in Schedule I grown on a Government farm or by a registered seed grower licensed by the appropriate Government Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India for the purpose and which had been derived from pure seed supplied by a Government seed Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India for the purpose and the crop of which shall have been inspected in the field and duly certified by the appropriate Government Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India, for the purpose as being at least 98% pure; and</p> <p>(b) shall have been ginned and pressed under the direct supervision of the appropriate Government Department or by any other agency to be recognized by the Agricultural Marketing Adviser to the Government of India for the purpose.</p>	<p>(a) shall consist of lint (in full pressed bales) obtained by machine ginning of kapas.</p> <p>(b) shall be clean and reasonably free from leaf, seed, stain or other imperfection.</p> <p>(c) shall be dry and free from any trace of added moisture.</p>

Commodity Code: 29 – Barley (Jau) (AGMARK)

	AP I	AP II		AP III	AP IV	AP V	AP VI
Grades	Moisture (*Maximum Limits Of Tolerance (Per Cent By Weight))	Foreign Matter (*Maximum Limits Of Tolerance (Per Cent By Weight))		Other Edible Grains (*Maximum Limits Of Tolerance (Per Cent By Weight))	Damaged Grains (*Maximum Limits Of Tolerance (Per Cent By Weight))	Immature and Shrivelled Grains (*Maximum Limits Of Tolerance (Per Cent By Weight))	Weevilled Grains (*Maximum Limits Of Tolerance (Per Cent By Weight))
		organic	inorganic				
grade I	12	0.1	nil	0.5	1	2	0.5
grade II	12	0.25	0.1	0.5	2	4	2
grade III	14	0.5	0.25	1	3	6	4
grade IV	14	0.75	0.25	1	4	6	8

General Characteristics:-

- (a) Be the dried mature grains of *Hordeum vulgare* L. Or *Hordeum distichon*;
- (b) Be sweet, hard, clean, wholesome, uniform in size, shape, colour and in sound merchantable condition;
- (c) Be free from added colouring matter, moulds, weevils, obnoxious substances, discolouration, poisonous seeds and all other impurities except to the extent indicated in the schedule;
- (d) Uric acid and aflatoxin shall not exceed 100 miligrams and 30 micrograms per kilogram respectively;
- (e) Be free from rodent hair and excreta;
- (f) Comply with the restrictions in regard to pesticides / insecticides residue (Rule 65), poisonous metals (Rule 57), naturally occurring toxic substances (Rule 57-B) and other provisions prescribed under the Prevention of Food Adulteration Rules, 1955 and as amended from time to time.

Commodity Code: 38- Black Pepper (AGMARK)**Black Pepper (Whole)**

	AP I	AP II	AP III	AP IV	AP V	AP VI	AP VII	AP VIII	AP IX	AP X	AP XI
Grades	Organic Extraneous Matter Percent By Mass (Max)	Inorganic Extraneous Matter Percent By Mass (Max)	Light Berries (Maximum)	Pinhead S Or Broken Berries (Maximum)	Bulk Density Gm/Litre (Minimum)	Moisture (Max)	Total Ash On Dry Basis (Max)	Non Volatile Ether Extract On Dry Weight Basis, Percent By Mass (Min)	Volatile Oil Ml/100 Gms (Min)	Piperine Content On Dry Basis (Minimum)	Insect Damaged Matter (Maximum)
Special	0.5	0.1	3	1	500	11	4	7	2.2	4.5	0.2
Standard	0.75	0.2	5	2	490	12	5	6	2	4	0.5

General Characteristics:-

- a. Black pepper shall be sound, dried, mature berries of *Piper nigrum* L. of family Piperaceae having an unbroken pericarp, brown to black in colour with wrinkled pericarp.
- b. It shall have the fresh and pungent taste and flavour Characteristics of black pepper;
- c. it shall be free from rancidity and mustiness;
- d. It shall be free from mould growth , living and dead insects, insect fragments and rodent contamination;
- e. It shall be free from added coloring matter and coating of mineral oil and any other harmful substances;
- f. It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified in the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 or any other Regulation notified under the Food Safety and Standards Act,2006 for domestic trade.
- g. It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified by the Codex Alimentarius Commission or importing Countries requirements for exports.

Non-Processed or Semi-Processed Black Pepper (Whole)

	AP I	AP II	AP III	AP IV	AP V	AP VI	AP VII	AP VIII	AP IX	AP X	AP XI
Grades	Organic Extraneous Matter Percent By Mass (Max)	Inorganic Extraneous Matter Percent By Mass (Max)	Light Berries (Maximum)	Pinhead S Or Broken Berries (Maximum)	Insect Damaged Matter (Maximum)	Bulk Density Gm/Litre (Minimum)	Moisture (Max)	Total Ash On Dry Basis (Max)	Non Volatile Ether Extract On Dry Weight Basis, Percent By Mass (Min)	Volatile Oil MI/100 Gms (Min)	Piperine Content On Dry Basis (Minimum)
Special	0.5	0.1	4	3	0.7	500	12	5	7	2.2	4
Standard	0.75	0.25	5	4	1	490	13	6	6	2	4

General Characteristics:-

- (a) Black pepper shall be dried mature berries of *Piper nigrum* L of family Piperaceae having an unbroken pericarp brown to black in colour with wrinkled surface;
- (b) It may be un cleaned or partially cleaned;
- (c) It shall be fresh and pungent and the taste and flavour shall be characteristic of the black pepper;
- (d) It shall be free from mould growth , living and dead insects, insect fragments,insects infestation and rodent contamination;
- (e) It shall be free from added colouring matter, coating of mineral oil and other harmful substances;
- (f) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified in the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 or any other Regulation notified under the Food Safety and Standards Act,2006 for domestic trade.
- (g) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified by the Codex Alimentarius Commission or importing Countries requirements for exports.

Commodity Code: 39 – Turmeric (AGMARK)

Turmeric (whole)

	API	AP II	AP III	AP IV	AP V	AP VI	AP VII
Grades	Organic Extraneous Matter Percent By Mass (Max)	Inorganic Extraneous Matter Percent By Mass (Max)	Defective Rhizomes (Max)	Moisture (Max)	Curcuminoid Content On Dry Weight Basis, (Minimum)	Insect Damaged Matter (Maximum)	Lead Chromate Test
Special	0.3	0.1	3	11	3	0.2	neg
Standard	0.7	0.3	5	12	2	0.5	neg

General Characteristics:-

- (a) The turmeric whole is the primary or secondary rhizomes of *Curcuma longa* L.
- (b) The rhizomes shall be well dried , well developed and shall have the shape ,colour characteristic of the variety;
- (c) It shall have all characteristic odour and flavour of the turmeric;
- (d) The cured rhizomes shall be in natural state or polished;
- (e) It shall not be treated with any artificial colour, including lead chromate and shall also be free from added starch and harmful substances;
- (f) It shall be free from mould growth, living and dead insects, insect infestation, insect fragments and rodent contamination;
- (g) It shall be free from mustiness and rancidity;
- (h) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified in the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 or any other Regulation notified under the Food Safety and Standards Act,2006 for domestic trade.
- (i) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified by the Codex Alimentarius Commission or importing Countries requirements for exports.

Commodity Code: 42 – Cumin Seeds (Jeera)/ Cumin Seeds (AGMARK)

Grades	AP I Organic extraneous matter percent by mass (max)	AP II Inorganic extraneous matter percent by mass (max)	AP III Damaged, discoloured and shrivelled fruits (Maximum)	AP IV Moisture (max)	AP V Total ash on dry basis (max)	AP VI Ash insoluble in Dil. HCl , on dry basis (Maximum)	AP VII Non volatile ether extract on dry weight basis, percent by mass (min)	AP VIII Volatile oil ml/100 gms (min)	AP IX Edible seeds other than cumin seeds (Maximum)	AP X Insect damaged matter (Maximum)
special	1	0.5	3	9	8	1	16	2.5	nil	0.2
standard	2	1	4	10	9.5	2.5	15	1.5	nil	0.5

General Characteristics:-

- (1) It shall be dried wholesome mature seeds of *Cuminum cyminum* L. of family Apiaceae
- (2) Its flavour shall be characteristic aromatic flavor of the Cumin and free from mustiness and rancidity
- (3) It shall be free any from any added colouring matter any other harmful substances
- (4) It shall be free from mould growth, insects infestation, living and dead insects, insect fragments and rodent contamination
- (5) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified in the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 or any other Regulation notified under the Food Safety and Standards Act, 2006 for domestic trade.
- (6) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified by the Codex Alimentarius Commission or importing Countries requirements for exports.

Commodity Code: 48 – Indian Sugar (BIS Standard – IS 1151:2003)

Grade	Loss on drying percent by mass, Max	Polarization, Min	Reducing sugar, percent by mass, Max	Colour in ICUMSA units, Max	Conductivity ash, percent by mass, Max	Sulphur dioxide, mg/kg., Max.	lead, mg/kg. Max	Chromium, mg/kg. Max
Requirement	0.05	99.7Z	0.04	60	0.04	15	0.5	20

Commodity Code: 99-Cotton Seeds (AGMARK)

	AP I	AP II	AP III	AP IV	AP V	APVI
Grade designation	Foreign matter	Damaged seeds	Immature, shrivelled and dead seeds	Weevilled seeds	Linters	Moisture
1	2	3	4	5	7	8
I	1.0	1.0	2.0	0.5	4.0	10.0
II	3.0	2.0	4.0	1.0	6.0	10.0
III	5.0	4.0	6.0	1.5	10.0	10.0

General Characteristics:-

The cotton seeds shall:

- i) Be obtained from the plant of *Gossypium* species;
- ii) Be well developed, mature, clean and dry;
- iii) Be reasonably uniform in shape, size and colour;

- iv) Be free from dirt, obnoxious smell, deleterious substances, insect infestation, visible mould attack and rodent contamination except to the extent provided under special characteristics.

Commodity Code: 108-Coriander Seeds / Coriander Dry (AGMARK)

	AP I	AP II	AP III	AP IV	AP V	AP VI	AP VII	AP VIII	AP IX
grades	Organic Extraneous Matter Percent By Mass (Max)	Inorganic Extraneous Matter Percent By Mass (Max)	Split Fruits (Max)	Damaged, Discoloured And Shriveled Fruits (Maximum)	Moisture (Max)	Total Ash On Dry Basis (Max)	Ash Insoluble In Dil. Hcl , On Dry Basis (Maximum)	Volatile Oil MI/100 Gms (Min)	Insect Damaged Matter * (Maximum)
special	0.25	0.1	4	1	8	6	1	0.2	0.1
standard	0.75	0.2	10	2	9	7	1.5	0.1	0.5

General Characteristics:-

Coriander (Whole) shall be dried mature fruits (Seeds) of *Coriandrum sativum* L of the family Umbelliferae;

- (1) It shall have all characteristic aroma and flavour of the Coriander ;
- (2) It shall be free from mustiness, rancidity;
- (3) It shall be free from mould growth , insect infestation ,living and dead insects, insect fragments and rodent contamination;
- (4) It shall be free from foreign colouring matter and any other harmful substances;
- (5) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified in the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 or any other Regulation notified under the Food Safety and Standards Act, 2006 for domestic trade.
- (6) It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified by the Codex Alimentarius Commission or importing Countries requirements for exports.

Commodity Code: 123-Castor Seed (AGMARK)

	API		AP II	AP III	AP IV	AP V		
grades	Extraneous matter		Damage, discoloured seeds, percent by mass (max.)	Immature and shrivelled, percent by mass (max.)	Broken seed, percent by mass (max.)	Moisture content, percent by mass (max.)	Oil content, percent by mass (min.)	Acid value of the extracted oil, percent by mass (max.)
	Organic percent by mass(max.)	Inorganic percent by mass (max.)						
Special	0.5	Nil	3.0	1.0	0.5	5.0	48.0	3.0
Standard	1.0	0.5	5.0	3.0	1.5	6.0	45.0	5.0
General	2.5	1.5	7.0	6.0	3.0	7.0	40.0	8.0

General Characteristics:-

Castor Seeds shall be:

- (a) Mature, clean and dried seeds;
- (b) Wholesome;
- (c) Uniform in size, shape and colour;
- (d) Free from living and dead insects, insect fragments;
- (e) Free from fungus, moulds and mites;
- (f) Free from added colouring matter or artificial colouring matter;
- (g) Free from rodent hair and excreta;
- (h) Free from admixture of any other seed;
- (i) Free from rancidity and mustiness and the seed shall not emit foul odour or found deformed due to moist condition.

Commodity Code: 413-Guar Seed (Cluster Beans Seed) (AGMARK)

	AP I	AP II	AP III	AP IV	AP V	AP VI	AP VII	AP VIII	AP IX	AP X
Grade designation	Extraneous matter		Other edible seeds	Damaged seeds including mechanical injuries	Immature Shriveled seeds	Moisture	Gum % (by difference)	Protein (on dry basis)	Total ash (on dry basis)	Residue insoluble in acid
	Organic (Max.)	Inorganic* (Max.)	(Max.)	(Max.)	(Max.)	(Max.)	(Min)	(Max.)	(Max.)	(Max.)
-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11
Special	0.1	0.05	Nil	0.3	1	7	40	33	4	16
Standard	0.5	0.3	0.5	1	3	8	35	35	5	18
General	1	0.6	1	2.5	5	9	30	37	6	20

General Characteristics:-

Guar seeds shall be.-

- (a) wholesome, mature and dried seeds ;
- (b) of characteristic size, shape and colour,
- (c) free from live and dead insects, insect fragments, mites, larvae;
- (d) free from fungal infestation;
- (e) free from added colouring matter;

- (f) free from rodent contamination;
- (g) free from the seeds of *Argemone mexicana* (Linn.) and other weeds;
- (h) free from rancidity and mustiness;
- (i) the odour and flavour of the seeds when ground and moistened shall be fresh;
- (j) free from objectionable taste and flavour;
- (k) free from kesari dal.

Commodity Code: 951- Cotton Seed Oil Cake (AGMARK)

	AP I	AP II	AP III	AP IV	AP V	AP VI	AP VII
Grade designation	Moisture % by weight MAX	Crude Protein (Nitrogen x 6.25) % by weight MIN	Crude fat or ether extract % by weight MIN	Crude fiber percent by weight MAX	Total ash % by weight MAX	Acid insoluble ash per weight MAX	Caster husk
1	2	3	4	5	6	7	8
Good	8	40	8	10	7	1.5	Nil
Fair	8	41	5	12	8	2	Nil
No. 2	8	37	5	14	9	2.5	Nil

General Characteristics:-

1. Shall be the product of clean cotton seed only, composed principally of the kernel with such un-avoidable portions of the hull and fibre as may be left in the course of manufacture of oil.
2. The material shall be firm but not flinty in texture.
3. It shall be free from harmful constituents and castor cake or husk.

4. It shall be free from rancidity, adulterants, insects or fungus infestation and from fermented, musty or other objectionable odour.
5. It shall be free from dirt and extraneous matter

Commodity Code: 995-Guar Gum (AGMARK)

Undehusked Split (Crude) Guar Gum

Grade Designation	Moisture, percent by weight (Maximum)	Ash, percent by weight (Maximum)	Protein, percent by weight (on dry basis)	Residue insoluble in acide, percent by weight (maximum)	Gum percent by weight (minimum)	Black splits* percent by weight (maximum)
1	2	3	4	5	6	7
Standard	10.0	1.0	Not more than 9%	13.0	70.0	4.0
General	12.0	2.0	Not more than 9%	14.0	67.0	7.0

*Includes organic extraneous matter such as stems/straw/chaff to the extent of 0.52 percent for standard grade and 1.0 percent for general grade.

General Characteristics:-

The undehusked split guar gum shall:

- (a) Be obtained by miling guar seeds from guar pods of the plant botanically known as *Cyamopsis tetragonoloba* family Leguminosae.
- (b) Be free from dirt, dust added colouring matter visible mould growth insect infestation and obnoxious smell.
- (c) Have characteristics shape, size and colour

Dehusked split (Refined) Guar Gum

Grade Designation	Moisture, percent by weight (Maximum)	Ash, percent by weight (Maximum)	Protein, percent by weight (on dry basis)	Residue insoluble in acide, percent by weight (maximum)	Gum percent by weight (minimum)	Black splits* percent by weight (maximum)
1	2	3	4	5	6	7
Standard	10.0	1.0	Not more than 9%	5.0	80.0	1.0
General	11.0	2.0	Not more than 9%	7.0	75.0	2.0

*Includes organic extraneous matter such as stems, straw, chaff.

General Characteristics:-

The dehusked split guar gum shall:

- (a) Be obtained by milling guar seeds after removal of husk from guar pod of the plant botanically known as *Cyamopsis tetragonoloba* Leguminosae family.
- (b) Be free from dirt, dust added colouring matter visible mould growth, insect infestation and obnoxious smell.
- (c) Have characteristic shape, size and colour

Guar Gum (pulverized) Powder

Grade Designation	Moisture, percent by weight (Maximum)	Ash, percent by weight (Maximum)	Protein, percent by weight (on dry basis)	Residue insoluble in acide, percent by weight (maximum)	Gum percent by weight (minimum)	Viscosity at 25 ⁰ C in centipoises (Minimum)	PH	Arsenic (As ₂ O ₃) ppm (max.)	Lead ppm (Maxmium)
1	2	3	4	5	6	7	8	9	10
Grade- I	11.0	0.5	Not more than 9%	3.0	80.0	3000	5.5-7.5	1.0	5
Grade - II	12.0	1.0	Not more than 9%	5.0	70.0	2000	6.0-8.0	1.0	5
Grade - III	13.0	1.5	Not more than 9%	7.0	55.0	1000	6.0-8.0	1.0	5

General Characteristics:-

The guar gum powder shall:

- (a) Be the produce obtained after multistage grinding of the guar seed from guar pods of the plant botanically known as *Cyamopsis tetragonoloba* as Leguminosae family
- (b) Be free from added starch, extraneous matter, added colouring matter, visible mould growth, insect infestation and obnoxious smell.
- (c) Pass through 300 micron sieve/as per specific sieve requirements of the buyers. Tolerance for sieve size 5%.

Note:

- I. The above assaying parameters are the extract taken from Agmark / BIS standards. For further details original Agmark standards / BIS standards may be referred.
- II. The Para “*Comply with the restrictions in regard to pesticides / insecticides residue (Rule 65), poisonous metals (Rule 57), naturally occurring toxic substances (Rule 57-B) and other provisions prescribed under the Prevention of Food Adulteration Rules, 1955 and as amended from time to time*” wherever appearing in the above parameters shall be replaced by,
 - a. *It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified in the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011 and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 or any other Regulation notified under the Food Safety and Standards Act, 2006 for domestic trade.*
 - b. *It shall comply with restrictions in regard to Aflatoxins, Heavy Metals, Insecticide or Pesticide residue, naturally occurring toxic substances, Microbial load or other food safety requirements as specified by the Codex Alimentarius Commission or importing Countries requirements for exports.*