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SCHEDULE –III
[See rules 3 and 4]

GRADE DESIGNATION AND QUALITY OF UNDEHUSKED SPLIT (CRUDE)
GUAR GUM

1. Guar gum un-dehusked split (crude) shall be obtained from clean, wholesome and healthy Guar seeds obtained from Guar pods or beans of *Cyamopsis tetragonolobus* (L.) of family *Leguminosae* by milling in a hygienic condition.

2. Minimum requirements:

- (i) Guar gum un-dehusked split (crude) shall be -
 - (a) of characteristic size, shape and colour,
 - (b) free from living and dead insects, insect fragments, mites, larvae;
 - (c) free from fungus infestation and visible mould growth ;
 - (d) free from added artificial colouring and bleaching matter;
 - (e) free from rodent hairs and excreta and animal filth;
 - (f) free from cobweb;
 - (g) free from the seeds of *Argemone mexicana* (Linn.) and kesari dal;
 - (h) free from rancidity and mustiness;
 - (i) free from objectionable taste and flavour;
 - (j) free from added starch and stabilizing agents.
- (ii) The odour and flavour shall be fresh when ground and moistened.
- (iii) Guar gum un-dehusked split (crude) shall be of white to grayish white in colour.
- (iv) Guar gum un-dehusked split (crude) shall comply with the residual limits of heavy metals, pesticides and other food safety requirements as laid down by the Codex Alimentarius Commission or the requirement of the importing country or as per buyers' requirement for exports.
- (v) Guar gum un-dehusked split (crude) shall comply with the restrictions in regard to residual levels of metal contaminants, insecticides and pesticides, crop contaminants, naturally occurring toxic substances and other food safety requirements as specified under the Prevention of Food Adulteration Rules, 1955

**3. CRITERIA FOR GRADE DESIGNATION OF UNDEHUSKED SPLIT (CRUDE)
GUAR GUM**

Grade design ation	Special requirements										p H
	Limit of tolerance % by mass										
	Extraneous matter										
	Organic	Inorganic	Moisture	Total ash , (on dry basis)	Acid insoluble Ash (on dry basis)	Protein , (on dry basis)	Gum % (by difference)	Black, brown and red colour splits	Crude fibre (on dry basis)	Resid ue insolu ble in acid	
	Max.	Max.	Max.	Max.	Max.	Max	Min.	Max.	Max.	Max	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Special	0.10	Nil	8.00	3.0	0.4	22.0	50.00	3.0	10.5	13.0	5.5- 7.5
Standar d	0.50	0.30	9.00	3.5	0.5	24.0	45.00	5.0	11.0	14.0	5.5- 7.5
General	0.70	0.60	10.00	4.0	0.6	26.0	40.00	7.0	11.5	16.0	5.5- 7.5

4.0 Other requirements.

- (i) The guar gum undehusked split (Crude) shall be in such condition to enable it to withstand transport and handling and to arrive in satisfactory condition at the place of destination.
- (ii) It shall be stored in appropriate cool and dry place maintained in a clean and hygienic condition.
- (iii) It shall be kept away from direct sunlight and moisture.
- (iv) The mesh or sieve size in micron may be marked on the packages (optional).

Explanation.- For the purposes of these rules, “extraneous matter” means any

extraneous matter comprising of :-

- (a) Organic matter consisting of husk, straws, weed seeds and other inedible seeds.
- (b) Inorganic matter consisting of metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay and mud.

1. Guar gum dehusked split (Refined) shall be obtained by milling clean, wholesome and healthy Guar seeds obtained from Guar pod or bean of *Cyamopsis tetragonolobus* (L.) of family *Leguminosae* in a hygienic condition.

2. Minimum requirements:

- (i) Guar gum dehusked split (refined) shall be:-
 - (a) of characteristic size, shape and colour,
 - (b) free from living and dead insects, insect fragments, mites, larvae;
 - (c) free from fungus infestation, visible mould growth ;
 - (d) free from added artificial colouring and bleaching matter;
 - (e) free from rodent hair and excreta and animal filth;
 - (f) free from cobweb;
 - (g) free from the seeds of *Argemone mexicana* (Linn.) and kesari dal;
 - (h) free from rancidity and mustiness;
 - (i) free from objectionable taste and flavour;
 - (j) free from added starch and stabilizing agents.

(ii) The odour and flavour of the Guar gum de-husked split (refined) shall be fresh when grind and moistened;

(iii) Guar gum de-husked split (refined) shall be white to whitish in colour.

(iv) Guar gum de-husked split (refined) shall comply with the residual limits of heavy metals, pesticides and other food safety parameters as laid down by the Codex Alimentarius Commission or the requirement of the importing country for exports.

(v) Guar gum de-husked split (refined) shall comply with the restrictions in regard to residual levels of metal contaminants, insecticides and pesticides, crop contaminants, naturally occurring toxic substances and other food safety requirements as specified under the Prevention of Food Adulteration Rules, 1955.

3. CRITERIA FOR GRADE DESIGNATION OF DEHUSKED SPLIT (REFINED) GUAR GUM

Grade design	Special requirements	
	Limit of tolerance % by mass	

ation	Extraneous matter										
	Organic	Inorganic	Moisture	Total Ash, (on dry basis)	Acid insoluble Ash (on dry basis)	Gum % (by difference)	Protein % by mass, (on dry basis)	Crude Fibre (on dry basis)	Black, Brown, Red Splits, % by mass	Residue Insoluble in Acid	p H
	Max.	Max.	Max.	Max.	Max.	Min.	Max.	Max.	Max.	Max.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Special	Nil	Nil	8.00	0.50	0.15	83.00	5.0	2.0	1.0	4.0	5.5-7.5
Standard	0.50	0.10	9.00	1.0	0.15	80.00	6.0	3.0	2.0	5.0	5.5-7.5
General	1.00	0.50	10.00	1.50	0.15	78.00	8.0	4.0	2.5	6.0	5.5-7.5

4. **Other requirements.-** (i) The de-husked split Guar Gum (refined) shall be in such condition to enable it to withstand transport and handling and to arrive in satisfactory condition at the place of destination.

(ii) Guar gum de-husked split (refined) shall be stored in appropriate cool and dry place maintained in a clean and hygienic condition.

(iii) Guar gum de-husked split (refined) shall be kept away from direct sunlight and moisture.

(iv) The mesh or sieve size in microns may be marked on the packages (optional).

Explanation: For the purposes of these rules, "extraneous matter" means any extraneous matter comprising of.-

(a) Organic matter consisting of husk, straws, weed seeds and other inedible seeds.

(b) Inorganic matter consisting of metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay and mud.

SCHEDULE –V

[see rules 3 and 4]

GRADE DESIGNATION AND QUALITY OF GUAR GUM (POWDER)

1. Guar gum Powder shall be obtained by multistage grinding, milling or pulverization of clean, wholesome and healthy Guar seeds from Guar pods/beans of