

## 1. ARHAR WHOLE

Common name: अरहर / तुर

English name : Red gram

Botanical name: *Cajanus cajan*



### 1. Arhar whole shall be -

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety
- ii. free from any obnoxious smell and fungus infestation

2. Variety (to be filled by assayer)

3. Actual Picture of the Lot..... (to be uploaded by assayer)

### 4. Criteria for Range designation :

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Essential</b>			
(i)	Moisture(% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iii)	Other edible grains (% by wt) Max	1.0	2.0	3.0
(iv)	Damaged grains (% by wt) Max	2.5	3.5	5.0
(v)	Weevilled Grains (% by count) Max	3.0	5.0	10.0
(vi)	Admixture (% by wt) Max	1.0	2.0	3.0
(vii)	Immature & Shriveled (% by wt) Max	1.0	2.0	3.0
<b>B</b>	<b>Optional (Processor/ Industrial)</b>			
(viii)	Uric Acid	Not more than 100mg/kg		
(ix)	Aflatoxin	Not more than 30 microgram/kg		

### 5. Sampling

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) **Foreign matter: includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.**
- (ii) Other Edible Grains: means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains: means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses
- (iv) Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 2. MOONG WHOLE

Common name: मूंग

English name : Green gram



**Botanical name:** *Vigna radiata* (L)

### 1. Moong whole shall be :

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety
- ii. free from obnoxious smell and fungus infestation.

### 2. Variety (to be filled by assayer)

### 3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iii)	Other edible grains (% by wt) Max	1.0	2.0	3.0
(iv)	Damaged grains (% by wt) Max	2.5	3.5	5.0
(v)	Weevilled Grains (% by count) Max	3.0	5.0	10.0
(vi)	Admixture (% by wt) Max	1.0	2.0	3.0
(vii)	Immature & Shriveled (% by wt) Max	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg		
(ix)	Aflatoxin	Not more than 30 microgram/kg		
(x)	Total of foreign matter, other edible grains and damaged grains	Not more than 9 percent by weight		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanically injured grains in case of whole pulses ;
- (iv) Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 3. MASOOR WHOLE

Common name: मसूर

English name : Lentil

Botanical name: *Lens culinaris*



#### 1. Masoor shall be:

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

#### 4. Criteria for Range designation :

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iii)	Other edible grains (% by wt) Max	1.0	2.0	3.0
(iv)	Damaged grains (% by wt) Max	2.5	3.5	5.0
(v)	Weevilled Grains (% by count) Max	3.0	5.0	10.0
(vi)	Admixture (% by wt) Max	1.0	2.0	3.0
(vii)	Immature & Shriveled (% by wt) Max	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/ Processor)</b>			
(vii)	Uric Acid	Not more than 100mg/kg		
(viii)	Aflatoxin	Not more than 30 microgram/kg		
(ix)	Total of foreign matter, other edible grains and damaged grains	Not more than 8 percent by weight		

#### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

#### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 4. URAD WHOLE

Common name : उरद

English name : Black gram

Botanical name: *Vigna mungo*



### 1. Urad shall be-

- clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- free from obnoxious smell and fungus infestation,

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture(% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter(% by wt) Max	1.0	1.5	2.0
(iii)	Other edible grains(% by wt) Max	1.0	2.0	3.0
(iv)	Damaged grains(% by wt) Max	2.5	3.5	5.0
(v)	Weevilled Grains (% by count) Max	3.0	5.0	10.0
(vi)	Admixture (% by wt) Max	1.0	2.0	3.0
(vii)	Immature & Shriveled (% by wt) Max	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(x)	Uric Acid	Not more than 100mg/kg		
(xi)	Aflatoxin	Not more than 30 microgram/kg		
(xii)	Total of foreign matter, other edible grains and damaged grains	Not more than 9 percent by weight		

### 5. Sampling:-

- 5 % or minimum one container shall be randomly selected for sampling.
- 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 5. WHEAT

Common name : गेहूँ

English name : Wheat

**Botanical name:** *Triticum aestivum* (L).



### 1. Wheat shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation,
2. Variety..... (to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	11.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.5	3.0	4.0
(iii)	Admixture/Other edible grains (% by wt) Max	5.0	7.0	10.0
(iv)	Immature & Shriveled Grains (% by wt) Max	3.0	5.0	7.0
(v)	Damaged/Discoloured grains (% by wt) Max	3.0	5.0	7.0
(vi)	Weevilled Grains (% by count) Max	4.0	6.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vii)	Protein (per cent. on dry matter basis)	Not less than 11.0 (durum wheat)		
(viii)	Minimum Test weight (weight of 100 litre volume expressed in Kg) /Hectoliter	Not less than 70		
(ix)	Uric Acid	Not more than 100mg/kg		
(x)	Aflatoxin	Not more than 30 microgram/kg		
(xi)	Deoxynivalenol (DON)	Not more than 1000 micro gm/ kg		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged/Discoloured Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 6. MAIZE

Common name : मक्का

English name : Maize

**Botanical name:** *Zea mays*



### 1. Maize shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety,
- ii. free from obnoxious smell and fungus infestation,

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	12.0	14.0	16.0
(ii)	Foreign matter (% by wt) Max	1.5	2.0	3.0
(iii)	Admixture/Other edible grains (% by wt) Max	1.0	2.0	3.0
(iv)	Damaged/ immature & Shriveled grains (% by wt) Max	7.0	10.0	15.0
(v)	Weevilled Grains (% by count) Max	4.0	6.0	10.0
<b>B.</b>	<b>Optional (Industrial/ Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		
(viii)	Total of foreign matter, other edible grains and damaged grains	Not more than 9 percent by weight		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 500gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 7. CHANA

Common name: साबत चना

English name : Bengal Gram

**Botanical name:** *Cicer arietinum*



### 1. Chana shall be-

- clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- free from obnoxious smell and fungus infestation

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	2.0	3.0
(iii)	Admixture/Other edible grains(% by wt) Max	2.0	3.0	4.0
(iv)	Damaged/ immature & Shriveled grains (% by wt) Max	4.0	5.0	7.0
(v)	Weevilled Grains (% by count) Max	3.0	6.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		
(viii)	Total of foreign matter, other edible grains and damaged grains	Not more than 9 percent by weight		

### 5. Sampling:

- 5% or minimum one container shall be randomly selected for sampling.
- 500gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 8. BAJRA

Common name: बाजरा

English name : Pearl millet



**Botanical name:** *Pennisetum americanum* (L)

### 1. Bajra shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	12.0	14.0	16.0
(ii)	Admixture (% by wt) Max	1.0	2.0	3.0
(iii)	Immature & Shriveled grains(% by wt) Max	4.0	6.0	8.0
(iv)	Foreign matter (% by wt) Max	0.1	0.6	1.0
(v)	Other edible grains (% by wt) Max	3.0	4.0	6.0
(vi)	Damaged/Discoloured grains (% by wt) Max	5.0	7.0	10.0
(vii)	Weevilled Grains (% by count) Max	2.0	4.0	6.0
<b>B.</b>	<b>Optional (Industrial/Processors)</b>			
(viii)	Uric Acid	Not more than 100mg/kg		
(ix)	Aflatoxin	Not more than 30 microgram/kg		
(x)	Total of foreign matter, other edible grains and damaged grains	Not more than 10 percent by weight		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 gm shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged/Discoloured Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 9. BARLEY

Common name : जौ

English name : Barley



**Botanical name:** *Hordeum vulgare*(L)

**1. Barley shall be:**

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from , abnormal flavours, obnoxious smell and fungus infestation

**2.** Variety ..... (to be filled by assayer)

**3.** Actual Picture of the lot..... ( to be uploaded by assayer)

**4. Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	11.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.5	3.0	4.0
(iii)	Admixture/Other edible grains (% by wt) Max	5.0	7.0	10.0
(iv)	Immature & Shriveled Grains (% by wt) Max	3.0	5.0	7.0
(v)	Damaged/Discoloured grains (% by wt) Max	3.0	5.0	7.0
(vi)	Weevilled Grains (% by count) Max	4.0	6.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(i)	Uric Acid	Not more than 100mg/kg		
(ii)	Aflatoxin	Not more than 30 microgram/kg		
(iii)	Total of foreign matter, other edible grains and damaged grains	Not more than 12 percent by weight		

**5. Sampling:**

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 500 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

**6. Definitions:**

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged/Discoloured Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

10.

**JOWAR**

Common name: ज्वार

English name : Jowar

**Botanical name:** *Sorghum bicolor***1. Jowar shall be-**

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot .....( to be uploaded by assayer)

**4. Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	12.0	14.0	16.0
(ii)	Admixture (% by wt) Max	1.0	2.0	3.0
(iii)	Immature & Shriveled grains(% by wt) Max	4.0	6.0	8.0
(iv)	Foreign matter (% by wt) Max	0.1	0.6	1.0
(v)	Other edible grains (% by wt) Max	3.0	4.0	6.0
(vi)	Damaged/Discoloured grains (% by wt) Max	5.0	7.0	10.0
(vii)	Weevilled Grains (% by count) Max	2.0	4.0	6.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg		
(ix)	Aflatoxin	Not more than 30 microgram/kg		
(x)	Total of foreign matter, other edible grains and damaged grains	Not more than 10 percent by weight		

**5. Sampling:**

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

**6. Definitions:**

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged/Discoloured Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 11. PADDY

Common name: धान

English name : Paddy

**Botanical name:** *Oryza sativa* (L)



### 1. Paddy shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	17.0	18.0	20.0
(ii)	Foreign matter (% by wt) Max	2.0	4.0	6.0
(iii)	Admixture (% by wt) Max	10.0	15.0	20.0
(iv)	Immature & Shriveled grains (% by wt) Max	3.0	5.0	7.0
(v)	Damaged/ discolored & Weevilled grains (% by wt) Max	4.0	6.0	8.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 500gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged/Discoloured Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 12. RAJMA

Common name: राजमा

English name : Kidney beans

Botanical name: *Phaseolus vulgaris*



### 1. Rajma shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation
2. Variety ..... (to be filled by assayer)
3. Actual Picture of the lot..... ( to be uploaded by assayer)
4. **Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	2.0	3.0
(iii)	Admixture/Other edible grains(% by wt) Max	2.0	3.0	4.0
(iv)	Damaged/ immature & Shriveled grains (% by wt) Max	4.0	5.0	7.0
(v)	Weevilled Grains (% by count) Max	3.0	6.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		
(viii)	Total of foreign matter, other edible grains and damaged grains	Not more than 12 percent by weight		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Admixture means the presence of a variety of the same grain other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 13. RAGI

Common name: रागी

English name: Finger millet

Botanical name: *Eleusine coracana*



**1. Ragi shall be-**

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation

**2. Variety** ..... (to be filled by assayer)

**3. Actual Picture of the lot**..... ( to be uploaded by assayer)

**4. Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture(% by wt) Max	12.0	14.0	16.0
(ii)	Admixture(% by wt) Max	1.0	2.0	3.0
(iii)	Immature & Shriveled grains(% by wt) Max	4.0	6.0	8.0
(iv)	Foreign matter (% by wt) Max	0.1	0.6	1.0
(v)	Other edible grains (% by wt) Max	3.0	4.0	6.0
(vi)	Damaged/Discoloured grains (% by wt) Max	5.0	7.0	10.0
(vii)	Weevilled Grains (% by count) Max	2.0	4.0	6.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg		

**5. Sampling:**

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

**6. Definitions:**

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged/Discoloured Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 14. LOBIA

Common name: लोबआ

English name : Cowpea

Botanical name : *Vigna sinensis*



### 1. Lobia shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot .....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	2.0	3.0
(iii)	Admixture/Other edible grains(% by wt) Max	2.0	3.0	4.0
(iv)	Damaged/ immature & Shriveled grains (% by wt) Max	4.0	5.0	7.0
(v)	Weevilled Grains (% by count) Max	3.0	6.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		
(viii)	Total of foreign matter, other edible grains and damaged grains	Not more than 12 percent by weight		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shriveled Grains means kernels or pieces of kernels that are not fully developed
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 15. BASMATI RICE

Common name : बासमती चावल

English name : Basmati Rice

Botanical name : *Oryza sativa*



### 1. Basmati Rice shall be:

- i. clean, wholesome, long, slender, reasonably uniform in size, shape and colour with marked degree of natural fragrance characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Length	6.61mm and above		
(ii)	Length- breadth ratio	3.5 and above		
(iii)	Moisture (% by wt) Max	12.0	13.0	14.0
(iv)	Foreign matter (% by wt) Max	0.40	0.50	0.60
(v)	Broken/Damaged/Chalky grains (% by wt) Max	8.5	13.0	17.0
(vi)	Red /Green grains/Paddy Grains (% by wt) Max	5.0	7.0	9.0
(vii)	Other varieties of rice (% by count) Max	7.0	10.0	15.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Average cooked rice length	12.0 mm and above		
(ix)	Average volume expansion ratio	More than 3.5		
(x)	Average pre-cooked milled rice breadth	Not more than 2 mm		
(xi)	Elongation ratio after cooking	Not less than 1.7		
(xii)	Alkali Spreading Value	4 to 7		
(xiii)	Amylose content (%)	20 to 25		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Other variety of rice means any the presence of a variety of the same rice grain other than the variety under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Broken grains means pieces of sound kernels that are less than three fourths of the size of full kernels.
- (v) Chalky Grains are pieces of kernels of which at least half the portion is opaque, milky white in colour and brittle in nature.
- (vi) Red grains shall be the kernels, whole or broken which have their surface coated with red brand. Green grains shall be the kernels, whole or broken which are greenish in color.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 16. White Peas

Common name: सफे द मटर /Mochai (TAMIL)/ Vella

pattaani (Malyalam)/Thella Bataaneelu (Telegu)

English name: White Peas

Botanical name: Lathyrus sativus



### 1. White Peas shall be-

- intact, firm, clean, reasonably uniform size, & shape, color characteristics to the variety
- free from visible foreign matter, abnormal external moisture, foreign smell, smoke, burn

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by Weight) Max	12.0	12.0	14.0
(ii)	Foreign matter (% by Weight) Max	1.0	1.5	2.0
(iii)	Other edible grains (% by Weight) Max	1.0	2.0	3.0
(iv)	Damaged grains(% by Weight) Max	3.0	4.0	5.0
(v)	Weevilled grains (% by Weight) Max	7.0	9.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		
(viii)	Total of foreign matter, other edible grains and damaged grains	Not more than 12 percent by weight		

### 5. Sampling:

- 5% or minimum one container shall be randomly selected for sampling.
- 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- 250 g shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- Foreign matter:- shall include sand, dirt, stones, glass and metallic pieces, lumps of earth, clay and mud, husk, chaff, straw, weed seeds and other inedible grains.
- Damaged and Discolored seeds: -Kernels or pieces of kernels that are sprouted or internally damaged as a result of heat, moisture, weather or microbes, and mechanical injured grains in case of whole pulses; discoloured, or discolouration materially affecting the quality.
- Other edible grain/seeds:- means any edible grains (including oil seeds) other than the one which is under consideration;
- Weevilled grains:-means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 17. CASTOR SEED

Common name : अरुंडी  
English name : Castor Seed



**Botanical name:** *Ricinus communis* (L)

### 1. Castor Seed shall be-

- clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- free from obnoxious smell and fungus infestation .

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil Content (% by wt) Min	47.0	45.0	40.0
(ii)	Foreign matter (% by wt) Max	1.5	2.5	3.5
(iii)	Damaged and discoloured seeds (% by wt) Max	4.0	6.0	7.0
(iv)	Broken Seeds (% by wt) Max	1.0	2.0	3.0
(v)	Moisture (% by wt) Max	5.0	6.0	7.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Admixture	Not more than 2 percent by weight		
(vii)	Fotri (Husk)	Not more than 5 percent by weight		

### 5. Sampling:

- 5% or minimum one container shall be randomly selected for sampling.
- 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- Damaged and Discoloured seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- Broken seeds are pieces of sound kernels that are less than three fourths of the size of full kernels.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 18. MUSTARD SEED

Common name: सरसों

English name : Mustard Seed

**Botanical name:** *Brassica nigra* (L)



### 1. Mustard Seed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil content (% by wt) Min	42.0	38.0	36.0
(ii)	Moisture (% by wt) Max	8.0	9.0	10.0
(iii)	Foreign matter (% by wt) Max	2.0	3.0	4.0
(iv)	Damaged and discoloured seeds (% by wt) Max	2.0	3.0	5.0
(v)	Other Edible Seeds (% by wt) Max	0.5	0.8	1.0
(vi)	Argemone seeds	Absent		
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vii)	Allyl iso thiocynate (m/m) on dry basis	Not less than 0.7 percent by weight		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged and discoloured seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iii) are pieces of sound kernels that are less than three fourths of the size of full kernels.
- (iv) Other Edible seeds means any edible seed other than the one which is under consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 19.SOYABEAN

Common name: सोयाबीन

English name : Soyabean

**Botanical name:** *Glycine max (L)*



### 1. Soyabean Seed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil content (% by wt) Min	20.0	18.0	13.0
(ii)	Moisture (% by wt) Max	7.0	9.0	12.0
(iii)	Foreign matter (% by wt) Max	1.5	2.0	3.0
(iv)	Damaged seeds (% by wt) Max	3.0	5.0	7.0
(v)	Other edible seeds (% by wt) Max	1.0	3.0	6.0
(vi)	Weevilled Seeds (% by count) Max	3.0	4.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vii)	Green Seed	Not more than 7.0 percent by weight		
(viii)	Protein	Not less than 34.0 percent by weight		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 g shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible seeds means any edible seed other than the one which is under consideration;
- (iii) Damaged seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled seeds are partially or wholly bored by insects injurious to seed but do not include germ eaten seeds and egg spotted seeds.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 20. PEANUT KERNEL

Common name: मूँगफली /Nilakadlai (Tamil)/Nilakadala (Malyalam)/ Verushanaga (Telugu)English name: Peanut (deshelled), Groundnut kernel (deshelled)



Botanical name: Arachis hypogaea

### 1. Peanut shall be–

- i. intact, firm, clean, reasonably uniform size & shape, color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell, smoke, burn

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Moisture</b> (% by Weight) Max	5.0	6.0	7.0
(ii)	<b>Damaged kernel including slightly damaged, discoloured kernel</b> (% by Weight) Max	3.0	4.0	5.0
(iii)	<b>Immature &amp; Shriveled</b> (% by Weight) Max	2.0	3.0	4.0
(iv)	<b>Foreign matter</b> (% by Weight) Max	0.5	1.0	2.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Aflatoxins	Not more than 30 parts per billion		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 200 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter: means stones, dirt, clay or any other edible/non-edible seeds such as mahua, castor, neem or argemone.
- (ii) Immature and shriveled kernel: are those kernels which are imperfectly developed and /or shrunken.
- (iii) Damaged kernel: are those kernels that are damaged mechanically or by mould, weevil or any other insect attack or those showing internal discoloration materially affecting the quality.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 21. SUNFLOWER SEED

Common name: स मखी बीज

English name : Sunflower

Botanical name: *Helianthus annus* (L)



### 1. Sunflower seed shall be-

- i. clean, wholesome, nearly reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot .....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
i.	Oil Content (% by wt) Min	28.0	25.0	22.0
ii.	Moisture (% by wt) Max	4.0	4.5	5.0
iii.	Foreign matter (% by wt) Max	2.0	4.0	6.0
iv.	Damaged seeds (% by wt) Max	4.0	5.0	6.0
B.	<b>Optional (Industrial/Processor)</b>			
viii.	Admixture	Not more than 2 percent by weight		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Damaged seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.

## 22. KUSUM SEED

Common name: कु सुम

English name: Kusum

Botanical name: *Schleichera oleosa*



### 1. Kusum seed shall be-

- i. clean, wholesome, nearly reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil Content (% by wt) Min	32.0	30.0	28.0
(ii)	Moisture (% by wt) Max	6.0	6.5	7.0
(iii)	Foreign Matter (% by wt) Max	1.5	2.5	4.0
(iv)	Damaged seeds (% by wt) Max	3.0	5.0	7.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Acid value of the extracted oil	Not more than 8 percent by weight		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (ii) Damaged seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 23. SESAME SEED

Common name: ततल

English name: Sesame seed

Botanical name: *Sesamum indicum*



### 1. Sesame seed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot .....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil Content (% by wt) Min	45.0	40.0	35.0
(ii)	Moisture (% by wt) Max	5.0	6.0	7.0
(iii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iv)	Damaged seed (% by wt) Max	1.0	2.0	3.0
(v)	Admixture of other varieties (%by wt) Max	10.0	15.0	20.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Total of Immature , shriveled, dead , damaged, discoloured seeds by weight	Not more than 5 percent		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iii) Admixture means the presence of a variety of the same seed other than the variety in consideration

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 24. NIGER SEED

Common name: सरहगया /Uchellu (Tamil) Valisalu

(Telegu)/ खरसणीबी(Marathi)

English name : Niger Seed

Botanical name: Guizotia abyssinica



### 1. Niger Seed shall be-

- i. intact, firm, clean, reasonably uniform size & shape, color characteristics to the variety
  - ii. free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety ..... (to be filled by assayer)
3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Oil Content</b> (% by Weight) Min	30.0	25.0	20.0
(ii)	<b>Moisture</b> (% by Weight) Max	7.0	8.0	9.0
(iii)	<b>Extraneous Matter</b> (% by Weight) Max	1.0	2.0	3.5
(iv)	<b>Broken seeds</b> (Damaged, shriveled, discoloured and immature seed) (% by Weight) Max	3.0	4.0	5.0
(v)	<b>Insect damaged seeds</b> (% by Weight) Max	0.5	0.75	1.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Total of Immature , shriveled, dead , damaged, discolored and slightly damaged Seeds	Not more than 5 percent by weight		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 250 g shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Extraneous /Foreign matter:- Includes inorganic and organic matter. The inorganic matter shall include sand, gravel, dirt, pebbles, stones, glass and metallic pieces, lumps of earth, clay and mud. Organic matter shall include husk, chaff, straw, weed seeds and other inedible grains.
- (ii) Broken seeds: -Kernels or pieces of kernels that are sprouted or internally damaged as a result of heat, moisture, weather or microbes, discoloured, and immature seed.
- (iii) Insect damaged seeds: shall be those seeds which are wholly or partly bored or eaten by the weevils.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 25. SAL SEED

Common name: साल बीज /Venkungiliyam (Tamil)/ Karimauthu with (Malayalam)/ Guggilam (Telegu)/रालाबी (Marathi)  
English name: Sal seed  
Botanical name: Shorea robusta



### 1. Sal Seed shall be-

- i. intact, firm clean, reasonably uniform size & shape, color characteristics to the variety
  - ii. free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety.....(to be filled by assayer)
3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable parameter	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Oil content</b> (% by Weight) Min	14.0	10.0	8.0
(ii)	<b>Moisture</b> (% by Weight) Max	11.0	11.0	11.0
(iii)	<b>Extraneous matter</b> (% by Weight) Max	1.5	3.0	4.0
(iv)	<b>Broken seeds</b> (Damaged, shriveled, discoloured and immature seed) (% by Weight) Max	9.0	11.0	12.0
(v)	<b>Insect damaged seed</b> (% by Weight) Max	3.0	5.0	6.0
B.	<b>Optional (Industrial/Processor)</b>			
(vi)	<b>Admixture</b>	Not more than 5 percent by weight		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 200 g shall be drawn from each selected container and shall be mixed homogenously will be called as primary sample
- (iii) 200 g shall be drawn from primary sample will be called as Laboratory sample

### 6. Definitions:

- (i) Extraneous /Foreign matter:- Includes inorganic and organic matter. The inorganic matter shall include sand, gravel, dirt, pebbles, stones, glass and metallic pieces, lumps of earth, clay and mud. Organic matter shall include husk, chaff, straw, weed seeds and other inedible grains.
- (ii) Broken seeds: -Kernels or pieces of kernels that are sprouted or internally damaged as a result of heat, moisture, weather or microbes, discoloured, and immature seed.
- (iii) Insect damaged seeds: shall be those seeds which are wholly or partly bored or eaten by the weevils.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 26. COTTON SEED

Common name: कपास बीज / Paruthi Vidai (Tamil)/

Parathi kuru (Malyalam)/ Patti Vittanam (Telugu)

English name :Cotton Seed

Botanical name: Gossypium spp.



Actual Picture for illustration

### 1. Cotton seed shall be-

- i. intact, firm, clean, of same variety and
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	Oil Content (% by Weight) Min	15.0	15.0	10.0
(ii)	Moisture (% by Weight) Max	10.0	11.0	12.0
(iii)	Foreign matter (% by Weight) Max	1.0	2.0	4.0
(iv)	Damaged seed (% by Weight) Max	3.0	4.0	5.0
B.	<b>Optional (Industrial/Processor)</b>			
(v)	Linters	Not more than 10 percent by weight		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 g shall be drawn from each selected container shall be mixed homogenously called as primary sample.
- (iii) 250 g shall be drawn from primary sample will be called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter:-All foreign material other than cottonseed material, where cottonseed material includes cotton fiber attached to the seed coat.
- (ii) Damaged seeds: -Includes smutty seed, hot seed, musty seed, sour seed, rotted seed and mouldy seed.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 27. PONGAM SEED

Common name: पोंगम बीज / Pongam vidai (Tamil)/ Pongu With (Malayalam)/ Kaanuga Vittanam (Telegu)

English name: Pongam seeds

Botanical name: Pongamia pinnata



Actual Picture for illustration

### 1. Pongam Seed shall be-

- i. intact, firm, clean, reasonably uniform size, & shape, color characteristics to the variety
  - ii. free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)
  4. **Criteria for Range designation:**

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil content (% by Weight) Min	30	25.0	20.0
(ii)	Moisture (% by Weight) Max	11.0	11.0	11.0
(iii)	Foreign matter (% by Weight) Max	1.5	3.0	4.0
(iv)	Broken seeds (% by Weight) Max	9.0	11.0	12.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Admixture	Not more than 5 percent by weight		

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 250 g shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter:- Includes inorganic and organic matter. The inorganic matter shall include sand, gravel, dirt, pebbles, stones, glass and metallic pieces, lumps of earth, clay and mud. Organic matter shall include husk, chaff, straw, weed seeds and other inedible grains.
- (ii) Broken seed:- Pieces of sound kernels that are less than three fourths of the size of the full kernels

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 28. APPLE

Common name: सेब

English name : Apple Botanical name: *Malus pumila (L)*

Varieties name: Apple Kashmiri, Kinnor, Royal Delicious, Royal Gold, Apple Golden, American, Pittu etc



### 1. Apples shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color (Red/Yellowish/Pinkish Green/Greenish Red) characteristics to the variety
- ii. free from bruises, soft patches, insect/mechanical injury, visible disorders, fungal infestation,

### 2. Variety .....(to be filled by assayer)

### 3. Actual Picture of the lot .....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Size (Diameter (mm) of the equatorial section) For all varieties	Up to 90	Up to 70	Up to 50
(ii)	Defects (% by count) (Max) (i) Dry Healed Hail (2-5 sq.cm of total surface area)	10	15	20
	(ii) Russetting (2-5 sq.cm of total surface area)	2	4	6
	(iii) Soft Patch (2-5 sq.cm of total surface area)	2	4	6
(iii)	Range Acceptance	90 %	85 %	80 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 29. PEAR

Common name: **नाशपाती**

English name : Pear

Botanical name: *Pyrus communis*

Varieties name: Naashpaati, Pear Kashmir, William, Kashmir Nakh, Vicar of Wakefield, Beuree D Amanlis, Goshbagu, Babugosa, Beurre Hardy etc.



### 1. Pears shall be–

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Size (mm) <b>Pear Shimla/Babugosa</b> <b>Pear Kashmir</b> <b>Pear Nakh</b>	Above 55 Above 45 Above 65	45-55 40-45 65-50	Below 45 Below 40 Below 50
(ii)	<b>Defects</b> <b>% by count (Max):-</b> (i) Colour (0.5 to 1 sq. cm. of total surface area)	2%	5%	10%
	(ii) Skin defects (bruising, brown spots) (0.5 to 2 sq. cm. of total surface area)	5%	10%	15%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 30. ORANGE

Common name: **संतरा**

English name: Mandarin Botanical  
name: *Citrus reticulata*

Varieties name: Kinnow mandarin, Darjeeling Mandarin,  
Sumithra mandarin



### 1. Mandarins shall be –

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell ,

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Size in mm</b> (diameter of the equatorial section)	66 to 80mm	55 to 65mm	Above 80 & Below 55
(ii)	<b>Defects % by count (Max):-</b> (i) Discoloration (0.5 to 5 sq cm of total surface area)	2%	5%	10%
	(ii) Slight bruising/minor cut/ (0.5 to 2 sq cm of total surface area)	2%	5%	10%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Total soluble solids (TSS) (minimum) in degree Brix ( Min)	8	6.5	
(v)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 31. SAPOTA

Common name: चीकू

English name: Sapodilla Botanical name: *Manilkara zapota*



Varieties name: Cricket ball, Kalipatti, Calcutta round, DHS-1,DHS-2, Baramasi, Baharu, Gandhevi Barada etc.

### 1. Sapota shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. Sapota shall not be very soft, shriveled or water soaked.
- iii. Free from, visible foreign matter, abnormal external moisture, foreign smell ,

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Size</b> (diameter of the equatorial section))	Above 50mm	Above 40mm	Below 40mm
(ii) (iii)	<b>Defects</b> <b>% by count (Max):-</b> Skin defects (scratches scars, scrapes and blemishes)	10 %	15 %	20%
(iv)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 32. MUSK MELON

Common name: खरबूटा

English name: Musk melon

Botanical name: *Cucumis melo*

Varieties name: Arka rajhans, Hara Madhu, Pusa Asaarbati, Arka Jest, Durgapura Madhu, Punjab sunahari, Lanow safed, Annamalai,



### 1. Musk Melons shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
  - ii. free from, visible foreign matter, abnormal external moisture, foreign smell ,
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Weights (gms)	Above 500 to 1500	Above 300 to 500	Below 300
(ii)	<b>Defects % by count (Max):-</b> Superficial Crack & Bruises (1-3sq. cm. of total surface area)	5%	10%	15%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement



### 33. GRAPES

Common name: अंगूर

English name: Grapes

Botanical name: *Vitis vinifera*



Varieties name: Anab-e-Shah, Bangalore Blue, Bhokri, Gulabi,

Kali Sahebi, Perlette, Thompson Seedless, Sharad Seedless, Arkavati, Arka Hans etc

#### 1. Bunches and berries of Table grapes shall be-

- i. intact, clean, firmly attached to the stalk, of reasonably uniform size, color characteristics to the variety
- ii. free from insect infestation, water sacs, shrivel age, foreign smell, mould

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

#### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	Essential			
(i)	<b>Defects:- (% by count) Max</b>	4%	6%	8%
	(i) Discolouration (per bunch)			
	(ii) Bunch size/weight (gm)	Up to 200 (evenly spaced along the stalk)	Up to 150 (less evenly spaced along the stalk than in the Range-1)	Up to 100 (less evenly spaced along the stalk than in the Range-2)
(ii)	<b>Range Acceptance</b>	95 %	90 %	85%
B.	Optional (Industrial/Processor)			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(iv)	Total soluble solids (TSS) % (minimum)	16 degree Brix		

#### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 200 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 34. LITCHI

Common name: **लीची** English  
 name: Litchi Botanical  
 name: *Litchi chinensis*



Varieties name: Shahi, Swarna Roopa, China, Kasba, Elachi, Purbi, Early Seedless, Rose Scented etc

#### 1. Litchi shall be:-

- i. intact, firm, clean, firmly attached to the stalk, of reasonably uniform size, color (Red/Orange) characteristics to the variety
- ii. free from soft brown patches on the skin, insect infestation, other visible defects

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

#### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects (% by count) (Max):-</b> (i) Discolouration (1-3 sq cm of total surface area)	10%	15%	20%
	(ii) Shriveled	2%	5%	7%
(ii)	<b>Size/weight of the bunch</b>	Not less than 500 gm  (Litchis must be firm, firmly attached to the stalk, loose berries shall not be more than 2 %)	Not less than 400 gm  (Litchis must be firm, firmly attached to the stalk, loose berries shall not be more than 4 %)	Not less than 300 gm  (Litchis must be firm, firmly attached to the stalk, loose berries shall not be more than 6 %)
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(v)	Size equatorial diameter (minimum)	33 mm	28 mm	23 mm

#### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 35. POMEGRANATE

Common name: अनार

English name: Pomegranate

Botanical name: *Punica granatum*



Varieties name: Bhagava, Ganesh, Arakta, Mrudula, Muskat, Jyoti, Ruby, Dholkaetc.

### 1. Pomegranates shall be :

- i. intact, firm, clean, firmly attached to the stalk of reasonably uniform size, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell ,

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
<b>(i)</b>	<b>Size (mm)</b>	<b>Upto 90 mm</b>	<b>Upto 75</b>	<b>Upto 65</b>
<b>(ii)</b>	<b>Defects % by count (Max):-</b> Slight bruising (2-5sq. cm. of total surface area)	2%	5%	10%
<b>(iii)</b>	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
<b>(iv)</b>	<b>Weight in Grams (minimum)</b>	More than 300	More than 200	Less than 200

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

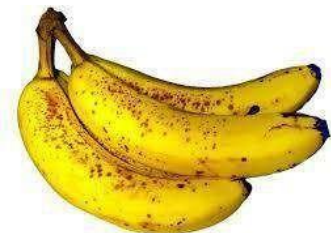
## 36. BANANA

Common name: के ला

English name: Banana

Botanical name: *Musa acuminata*

Varieties name: Dwarf Cavendish, Robusta, Rasthali, SafedVelchi  
Musa, Karpuravalli, Monthan etc.



### 1. Bananas shall be –

- i. intact, firm, clean, firmly attached to the stalk of reasonably uniform size, color (Green/Yellow/Golden Yellow) characteristics to the variety
- ii. free from chitti, insect infestation, cuts, mechanical injury ,
- iii. Bananas shall not be over ripened /under ripened

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sl.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects (% by count) (Max)</b>			
	(i) Cut/ Bruising (10 to 20mm of total surface area)	5	10	Above 10
	(ii) Chitti (5-10mm of surface area)	5.0	8.0	Above 8.0
	(iii) Black spot (5-10mm of surface area)	2.0	4.0.	Above 4.0
(ii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Sizing characteristics</b>	The minimum length should not be less than 14.0 cm and the minimum grade not less than 2.7 cm		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Lungars shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 03 bunches shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 37. PLUM

Common name: आल ख ा  
रा

English name: Plum

Botanical name: *Prunus domestica*

Varieties name: Kala Amritsari, Satluj purple, Jamuni Merruti, Titron, Katari chak, Alu Bukhara, Howe, Alpha, Alucha Black etc.



### 1. Plums shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell ,  
Mold/ Fungal infested.

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
<b>(i)</b>	Size (mm)	<b>Above 40</b>	<b>30 to 39</b>	<b>Below 30</b>
<b>(ii)</b>	<b>Defects % by count (Max):- Slight bruising/ hail patches ( 0.5 -1 sq. cm of total surface area)</b>	3%	5%	7%
<b>(iii)</b>	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
<b>(iv)</b>	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40- 70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## BB. PEACH

Common name: आड़ू

English name: Peach

Botanical name: *Prunus persica*

Varieties name: TA-170, Shan-e-Punjab Flordasun, Sharbatietc.



### 1. Peach shall be-

- i. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell ,

### 2. Variety..... (to be filled by assayer)

### 3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Size (mm)	Above 45	35 to 45	Below 35
(ii)	<b>Defects % by count (Max):-</b> Slight bruising/ soft patches ( 0.5 -1 sq. cm of total surface area)	3%	5%	7%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 39. MANGO

Common name: **आम**

English name: Mango Botanical name: *Mangifera indica*



Varieties name: Dusherry, Alphonso, Totapuri, Baneshan, Safeda, Malda, Malda, kesar etc

### 1. Mangoes shall be-

- i. Fully developed, matured, clean, of reasonably uniform size & color (Yellow/Reddish, Yellow/Reddish Green) characteristics to the variety
  - ii. free from, insect infestation, internal spongy tissues, visible foreign matter, foreign smell ,
2. Variety..... (to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
<b>(i)</b>	<b>Size by Weight (in gm) For all varieties</b>	<b>Up to 500</b>	<b>Up to 200</b>	<b>Up to 100</b>
<b>(ii)</b>	<b>Defects (% by count) (Max)</b>  Cut skin/Bruising (10 to 30 mm of total surface area)	10%	15%	20%
<b>(iii)</b>	<b>Range Acceptance</b>	90 %	85 %	80%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
<b>(iv)</b>	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample,

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 40. SWEET ORANGE

Common name: **मौसंबी**

English name: Sweet Orange

Botanical name: *Citrus aurantium*

Varieties name: Mosambi, Malta (Common), Malta (Blood Red), Sathgudi etc.



### 1. Mosambi shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety.
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Size</b> (Diameter)	Upto 80mm	Upto 65 mm	Upto 55 mm
(ii)	<b>Defects</b> <b>% by count (Max):-</b> Scratches scars, scrapes and blemishes (0.5-2 sq. cm. of total surface area)	<b>3%</b>	5%	7%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(v)	<b>Total soluble solids</b>	Not less than 10 degree brix		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement



## 41.CUSTARD APPLE

Common name: शरीफा

English name: Custard Apple

Botanical name: *Annona reticulata*

Varieties name: Balanagar, Arka Sahan, Barbados Seedling, Kakarlapahad, British Guinea, Mahboobnagar, Saharanpur local, Washington etc.



### 1. Custard apple shall be-

- i. intact, firm, clean, & color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Size (Diameter)</b>	<b>Above 60 mm</b>	<b>50 to 60 mm</b>	<b>Below 50 mm</b>
(ii)	<b>Defects % by count (Max):-</b> Blemishes, scars, sunspots (0.5-2 sq. cm. of total surface area)	3%	5%	10%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 42. WATERMELONS

Common name: तरबूज

English name: Watermelon

Botanical name: *Citrullus lanatus*

Varieties name: Sugar Baby and Arka Manik,PKM 1,ArkaJyoti and Pusa Bedana



### 1. Watermelons shall be –

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Weight (kgs)</b>	above 5 to 10	2 to 5	Below 2
(ii)	<b>Defects % by count (Max):-  Colour (paler part of any region including bruises)</b>	10%	15%	20%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(v)	<b>Total Soluble Solids</b>	Not less than 10 degree brix		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 3 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 3 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 43. LEMON

Common name: नींबू

English name: Lemon

Botanical name: *Citrus limon*

Varieties name: Kargzi lime, Assam lemon, Italian lemon, Pant lemon, Galgal, Eureka lemon, Sevilla, Malta lemon, Vikram, Prumalini, PKM, and Sai Sharbati etc.



### 1. Lemons shall be-

- i. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell, Mold infestation

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Size</b> (Diameter)	Above 30 mm	20 to 30 mm	Below 20 mm
(ii)	<b>Defects</b> <b>% by count</b> <b>(Max):-</b> (i) Colour  (ii) Scratches scars, scrapes and blemishes (0.5-1 sq. cm. of total surface area)	3 %  3%	5%  5%	7%  7%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 44. GUAVA

Common name: अमरुद/ Goiyya (Tamil)/Perakka (Malyalam)/  
Jaama (Telugu)/ JAMFAL (Gujarati) /पुणे (Marathi)

English name:Guava

Botanical name: *Psidium guajava*



Variety Name: Allahabad safeda, Lucknow 49, Anakapalli, Banarasi,  
Chittidar, Hafshi, Sardar, Smooth Green, Safed Jam,

Arka Mridula,-49, Lucknow Safeda, Apple Colour, Chittidar, Red Fleshed, AllahabadSurkha,  
Mirzapuri Seedless, CISH-G-1, CISH-G-2, CISH-G-3

### 1. Guava shall be–

- Wholesome, firm, fresh, clean, of same variety and
- Free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Size mm	50 to 90	Below 50 and more than 90	Below 50 and more than 90
(ii)	<b>Defects % by count (Max):-</b>  Skin defects (Bruising/scratches/ Sunburn)	5%	10%	15%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- 5 % or minimum one container shall be randomly selected for sampling
- 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 45. JACKFRUIT

Common name: कटहल /Palapazham (Tamil)/chakka  
(Malayalam)/ Panasa (Telugu)/फणस (Gujarati &  
Marathi)

English name: Jackfruit



Botanical name: *Artocarpus heterophyllus*

### 1. Jackfruit shall be –

- i. Wholesome, firm, fresh, clean, of same variety and
  - ii. Free from, visible foreign matter, abnormal external moisture, foreign smell
2. Variety..... (to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
<b>(i)</b>	<b>Defects % by count (Max):-</b>			
	Irregular Shape maturity development	2%	4%	6%
	Skin defects	3%	5%	10%
<b>(ii)</b>	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
<b>(iii)</b>	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40- 70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 3 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 3 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 46. KINNOW

Common name: కిన్నో Naarinja (Telugu)

English name: Mandarin Botanical  
name: *Citrus reticulata*



### 1. KINNOW shall be –

- i. Wholesome, firm, fresh, clean, of rind moderately thick, of reasonably uniform size, & shape, color characteristics to the variety
- ii. Free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b> (i) Discolouration (1-4 sq cm of total surface area)  (ii) Skin defects due to rubbing (Bruising/scratches) (1-4 sq cm of total surface area)	2%	4%	6%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 47. RAW MANGO (For Pickles)

Common name: कच्चा आम/Maangai (Tamil)/ Pacha mango (Malyalam) /Pachi Mamidi (Telugu)/ KARY (Gujarati)English name: Raw Mango

Botanical name: Mangifera indica



### 1. Raw mangoes shall be-

- i. Firm, Wholesome, fresh, clean, of same variety and
  - ii. Free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety .....(to be filled by assayer)
3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Hardness</b>	<b>Very hard</b>	<b>Hard</b>	<b>Slight hard</b>
(ii)	<b>Color</b>	<b>Dark Green</b>	<b>Green</b>	<b>Light Green</b>
(iii)	<b>Defects (Max):-</b> Cut, Bruising/scratches (5mm to 15)	5%	10%	Above 10%
(iv)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 48. ONION

Common name: **प्याज**

English name : Onion Botanical name: *Allium cepa* (L)



Varieties name: Bhima Raj, Bhima Red, Bhima Super, Bhima Super, Bhima Shakti, Bhima Shweta, PAU, Ludhiana, Pusa Red, N-2-4-1, Pusa Madhavi, NHRDF, Nasik, Early Grano, Arka Niketan, Arka Kalyan etc

### 1. Onion shall be-

- i. dry, intact, clean, of reasonably uniform size, & shape, color characteristic to the variety,
- ii. free from sprouting, seed stem, double split, staining, insect infestation, soft root.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sl.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects (% by count) (Max)</b>			
	(i) Cut (5-15mm long)	5.0	10.0	15.0
	(ii) Double split	2.0	5.0	Above 8.0
	(iii) Sprouted	2.0	5.0	Above 8.0
	(iv) Rooting	2.0	5.0	Above 8.0
(ii)	<b>Size</b> (maximum diameter of the equatorial section)	Up to 65 mm	Up to 45mm	Up to 25 mm
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling.

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 500 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 49. POTATO

Common name: **आलू**

English name: Potato

Botanical name: *Solanum tuberosum*



Varieties name: Kufri Sindhuri, Kufri Chandramukhi, Kufri Jyoti, Kufri Lauvkar, Kufri Badshah, Kufri Bahar, Kufri Lalima, Kufri

Jawahar, Kufri Sutlej, Kufri Ashoka, Kufri Pukhraj, Kufri Chipsona-1, Kufri Chipsona-2 Kufri Anand

### 1. Potato shall be-

- firm, fresh, of reasonably uniform size, shape & colour characteristic to the variety
  - free from rotten spot, greening, chitti, cracks, cuts, major wholes, mechanical injury
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)
  4. **Criteria for Range designation:**

Sl.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects (% by count) (Max)</b>			
	(i) Cracks/cut (5 mm to 20mm)	5%	10%	Above 10%
	(ii) Greening (1-3 sq cm of total surface area)	2.0	3.0	Above 3.0
	(iii) Holes	1.0	2.0	Above 2
	(iv) Mechanical injury	2.0	3.0	Above 3.0
(ii)	<b>Size (mm)</b> (maximum diameter of the equatorial section)	Up to 70	Up to 55	Up to 25
(iii)	<b>Range Acceptance</b>	90%	85%	80%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 1Kg shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 500g. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 50. TOMATO

Common name: टमाटर

English name : Tomato

**Botanical name:** *Solanum lycopersicum*

Varieties name :Arka Saurabh, Arka Vikas, Arka Ahuti, Arka Ashish, Arka Abha , Arka Alok, HS101, HS102, HS110, Hisar Arun, Hisar Lalima, Hisar Lalit, Hisar Anmol, KS.2, Narendra Tomato 1, Narendra Tomato 2, Pusa



Red Plum, Pusa Early Dwarf, Pusa Ruby, Co-1, CO 2, CO 3, S-12, Punjab Chuhara, PKM 1, Pusa Ruby, Paiyur-1, Shakthi, SL 120, Pusa Gaurav, S 12, Pant Bahar, Pant T3, Solan Gola and Arka Meghali etc

### 1. Tomatoes shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. free from insect damage, mechanical injury, rotten spot, over ripening
2. Variety .....(to be filled by assayer)
3. Actual Picture of the lot..... ( to be uploaded by assayer)
4. **Criteria for Range designation:**

Sl.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects (% by count) (Max)</b>	2.0	3.0	Above 3.0
	(i) Dry crack/cut (5-10mm)			
	(ii) Sunburn (for 1-3 sq.cm of surface area)	2.0	3.0	Above 3.0
	(iii) Mechanical injury	2.0	3.0	Above 3.0
	(iv) Discolouration (Green /Green Top/ Blotchy) (for 1-4 sq.cm of surface area)	3.0	5.0	Above 5.0
(ii)	<b>Size</b> (maximum diameter of the equatorial section)	Upto 65mm	Upto 55mm	Upto 45 mm
(iii)	<b>Range Acceptance</b>	95%	90%	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling.

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 500 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 51. PEAS

Common name: **मटर**

English name :Shelling peas

Botanical name:*Pisum sativum (L)*

Varieties name : Arkel,Jawahar Matar-4,Bonneville,P-8,Lincoln,Jawahar Matar-1,VL-3,Pant Uphar etc.



### 1. The Peas pods shall be –

- i. intact, clean and sound, turgid, fresh in appearance
- ii. free from black/brown spots on pods, visible insect damage, rotten tips,

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

SI.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects (Max)</b>			
	(i) Under developed (% by count)	3.0	5.0	Above 5.0
	(ii) Black/ brown spots	1 sq cm of total surface area	1-2 sq cm of total surface area	2-3 sq cm of total surface area
	(iii) Dry skin	Covering 10% surface area	Covering 20% surface area	Covering above 20% surface area
(ii)	Size (Length in mm) (maximum diameter of the equatorial section)	Upto 65mm	Upto 55mm	Upto 45 mm
(iii)	<b>Range Acceptance</b>	95%	90%	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling.

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 52.BOTTLE GOURD

Common name: लौकी

English name: Bottle Gourd

Botanical name: *Lagenaria siceraria*

Varieties name: PKM1,CO.1, Pusa Navven, Arka Bahar, Summerprolific Round, Summer prolific long, Pusa Manjiri, Pusa Meghdoot, Samrat etc.



### 1. Bottle gourd shall be-

- i. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	Weight (min.)	Upto 750 gms	500- 350 gms	Below 349 gms
(ii)	<b>Defects % by count (Max):-</b> (i) shape/color & stains (1-4 sq cm of the surface area)	5%	10%	15%
	(ii) rubbing and handling (1-4 sq cm of the surface area)	5%	10%	15%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 53. BITTER GOURD

Common name: **करेला**

English name: Bitter Gourd

Botanical name: *Momordica charantia*

Varieties name: Co 1, MDU 1, COBgoH 1 (Hybrid), Arka Harit, Priya and Preethi etc



### 1. Bitter gourds shall be-

- i. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Length( mm)</b>	<b>Above 150 to 200</b>	<b>Above 100 mm to 150</b>	<b>60 to 100</b>
(ii)	<b>Defects % by count (Max):-</b> Skin, Color defects (scratches, scars, scraps and blemishes slight yellow color) (1-4 sq cm of surface area)	3%	5%	7%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 54. CUCUMBER

Common name: खीरा

English name: Cucumber Botanical name: *Cucumis sativus*



Varieties name: Amira, Lemon, Greensleeves, Armenian, Saladbush, Pickle bush etc.

### 1. Cucumber shall be–

- i. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) color & stains	3%	5%	7%
	(ii) Skin defects (Bruising/scratches/cut) (1-4 sq cm of total surface area)	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 55. BRINJAL

Common name: बैंगन

English name: Brinjal

Botanical name: *Solanum melongena*



Varieties name: Pusa Purple Long, Pusa Purple Cluster, Pusa Kranti, Pusa Barsati, Manjri Gota, Vaishali, Arka Navneet , Arka

Sheel, Arka Kusmukar, Arka Nidhi ( BWR – 12), Arka Keshav ( BWR – 21 ), Arka Neelkanth ( BWR – 54 ), Pusa Ankur, Eggplant- cloud nine, Hari, Andaj, Bijli, Bharta

### 1. Brinjal shall be -

- iii. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
  - free from visible foreign matter, abnormal external moisture, foreign smell
  - Variety.....(to be filled by assayer)
  - Actual Picture of the lot..... ( to be uploaded by assayer)

### 2. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects</b> <b>% by count (Max):-</b> (i) Bruising/ Scars/ Scratches (1-3 sq cm of total surface area)	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 3. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 15 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 15 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 56. CABBAGE

Common name: पत्तागोभी

English name: Cabbage

Botanical name: *Brassica oleracea var. capitata*

Varieties name: Golden Acre, Pride of India, Copenhagen Market, Pusa Mukta, Pusa Synthetic, Midseason Market, September Early, Pusa Drumhead, Early Drum Head, Late Large Drum Head, K-1



### 1. Cabbage shall be-

- i. fresh, firm, clean, well trimmed, of reasonably uniform size ,variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Burst Head	3%	5%	7%
	(ii) Mechanical/Physical Injury	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Weight</b>	Not less than 200 gms		
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 57. CAULIFLOWER

Common name: फू लगेभी

English name: Cauliflower/ BROCCOLI

Botanical name: *Brassica oleracea var. botrytis*/ L. var. italic

Varieties name: Pusa Deepali, Early Kunwari, Punjab Giant-26,

Punjab Giant-35, Pant Shubhra, Pusa Snowball-1, Sonwball-16, Pusa Early Synthetic, Pant Gobhi-2, Pant Gobhi-3, Dania Kalimpong, KTS-I, Solan Green, Lucky, Fiesta, Pushpa, Aishwarya, Palam Vichitra etc.



### 1. Cauliflower shall be-

- i. fresh, firm, clean, well trimmed, of reasonably uniform size , & shape, color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b> (i) Bruising (1-3 sq cm of total surface area)	3 %	5 %	7 %
	(ii) Colour (1-5 sq cm of total surface area)	3 %	5 %	7 %
	(iii) Wooliness (1-10 sq cm of total surface area)	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 58. GREEN CHILLIES

Common name: हरी ममचच

English name: Green Chilly

Botanical name: *Capsicum annum L*

Varieties name: Agnirekha, Volcano, Tapan, Savitri, Bela, NS991, Balwant, Green wonder, CCS-1, G-4, Kiran and Jwala etc.



### 1. Green Chillies shall be

- i. fresh, firm, clean, of color characteristics to the variety
- ii. Free from visible foreign matter, abnormal external moisture, foreign smell, holes, rotten, insect infestation

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>		<b>Essential</b>		
(i)	<b>Defects % by count (Max):-</b> (i) Bruising (5-10 mm of total surface area)	3%	5%	7%
	(ii) Colour (Including sun spots) (05-10 mm of total surface area)	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>		<b>Optional (Industrial/Processor)</b>		
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40- 70	Less than 40

### 5. Sampling: -

- (i) 5% or minimum one container shall be randomly selected for sampling
- (ii) 100g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 100g. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 59. CARROT

Common name: गाजर

English name: Carrot

Botanical name: *Daucus carota* subsp. *Sativus*



Varieties name: Pusa Kesar, Pusa Meghali, Selection 223, No. 29, Nantes Half Long, Early Nantes, Chantenay, Imperator, Zeno, Pusa Yamdagini etc.

### 1. Carrots shall be-

- i. fresh, firm, clean, of color characteristics to the variety
- ii. free from root splitting, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Size (mm)</b>	<b>150 to 200</b>	<b>Above 200 to 275</b>	<b>Below 150 &amp; above 275</b>
(ii)	<b>Defects % by count (Max):-</b> (i) Bruising/ Scars/ Scratches (1-10 sq cm of total surface area)	5%	10%	15%
	(ii) discoloration (1-4 sq cm of total surface area)	5%	10%	15%
	(iii) Cracks/Fissures	3%	5%	7%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 15 Nos shall be drawn from each selected container and shall be mixed homogeneously , called as primary sample
- (iii) 15 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 60. SWEET POTATO

Common name: शकरकुंद

English name: Sweet Potato

Botanical name: *Ipomoea batatas*

Varieties name: Co 3, Co CIP 1, Sree Nandini, Sree Vardhini, Kiran, Sree Bhadra, Sree Rethna, Gouri and Sankar. Certain local cultivars like SP local, SP 4, SP 13, SP18 and Musiri Thandel



### 1. Sweet potatoes shall be –

- i. fresh, firm of color characteristics to the variety
- ii. free from black rot, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Discoloration (1-4 sq cm of total surface area)	3%	5%	7%
	(ii) Skin defects (Bruising/scratches/cut) (1-4 sq cm of total surface area)	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 05 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 61. SPINACH

Common name: पालक

English name: Spinach

Botanical name: *Spinacia oleracea*



### 1. Spinach shall be –

- i. intact, firm, clean, properly drained if washed and
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (i) Discolouration	3%	5%	7%
	<b>(ii) Leaf Stem</b>	Spinach Leaf stem must not exceed 5 cm in length	Spinach Leaf stem must not exceed 7 cm in length	Spinach Leaf stem must not exceed 10 cm in length
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 500 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 62. MUSTARD LEAF

Common name: सरसों साग  
English name: Mustard Leaf  
Botanical name: *Brassica nigra*



### 1. Mustard Leaf shall be –

- i. intact, firm, clean, properly drained if washed and
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (i) Discolouration	3%	5%	7%
	<b>(ii) Leaf Stem</b>	Mustard Leaf stem must not exceed 5 cm in length	Mustard Leaf stem must not exceed 7 cm in length	Mustard Leaf stem must not exceed 10 cm in length
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- (iii) 500 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 63.CORIANDER LEAVES

Common name: धननया पत्ता

English name: Coriander leaves

Botanical name: *Coriandrum sativum*

Varieties name: CO-1, CO-2, CO-3, CS-2, CS-287, Karan



### 1. Coriander Leaves shall be –

- i. intact, firm, clean, properly drained if washed and
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (i) Discolouration	3%	5%	7%
	<b>(ii) Split leaves</b>	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 64.GARLIC

Common name: लहसुन

English name: Garlic

Botanical name: *Allium sativum*



Varieties name: Bhima Omkar, Bhima Purple, Agrifound White (G-41)  
Yamuna Safed(G-1), Yamuna Safed-2 (G-50), Yamuna Safed-3

(G-282), Yamuna Safed-4 (G-323) Yamuna Safed-5 (G-189), Godavari, Shweta, Phule  
Baswant, GG 4, Ooty 1, VL Garlic 1, VL Lahsun 2, Agrifound Parvati, Agrifound Parvati-2  
(G-408)

### 1. Garlic bulbs shall be-

- i. intact, firm, clean, of reasonably uniform size & shape, color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell and  
Garlic may be Fresh or Semidry or Dry.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Irregular shape	3%	5%	7%
	(ii) Slight tears in outer skin	2%	4%	6%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Garlic Bulb diameter			
	(i) with cloves	Not less than 25 mm		
	(ii) single clove	Not less than 15 mm		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 65. Bhindi/Okra

Common name: मभडी

English name: Lady Finger

Botanical name: *Abelmoschus esculentus*

Varieties name: Pusa Makhmali, Punjab no. 13, Punjab Padmini, Pusa Sawani, Parbhani Kranti, Arka Anamika etc.



### 1. Lady finger shall be-

- i. whole with peduncle and intact tip, firm, fresh, clean, of color characteristics to the variety
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Size (mm)</b>	<b>30 to 110</b>	<b>Above 110 to 135</b>	<b>Below 30 &amp; above 135</b>
(ii)	<b>Defects % by count (Max):-</b> (i) scars, blemishes, scratches, bruises, scraps (1-4 sq cm of total surface area)	3%	5%	7%
	(ii) Broken/without stalk	2%	4%	6%
	(iii) Hardness	10%	15%	20%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 66.GINGER

Common name: अदरक

English name: Ginger

Botanical name: *Zingiber officinale*



Varieties name: Maran, Assam, Himachal, Kuruppampadi, Wynad Local, Suprabha, Suruchi, Suravi, Himgiri, Varada, Mahima, Rejatha etc.

### 1. Ginger shall be-

- i. Wholesome, firm, fresh, clean, same variety and
  - ii. Free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety..... (to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b>  Skin defects (Bruising/scratches/cut) (1-3 sq cm of total surface area)	3%	5 %	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(iv)	<b>Weight</b>	Not less than 20 grms		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 67. BEETROOT

Common name: चक  
दर

English name: Beetroot

Botanical name: *Beta vulgaris*

Varieties name: Detroit Dark Red, Crimson Globe



### 1. Beet root shall be:

- i. Fresh, firm deep bright red-purple flesh, clean, of reasonably uniform size, same variety and
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Discolouration (1-4 sq cm of total surface area)	2%	4%	6%
	(ii) Skin defects (Bruising/scratches/c ut) (1-4 sq cm of total surface area)	3%	5%	7%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/ Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40- 70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 500 gms shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 500 gms shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 68. RIBBED CELERY

Common Name: अजमोद

English name: Ribbed Celery

Botanical name: *Apium graveolens*



### 1. Ribbed celery shall be :

- i. intact, firm, clean, properly drained if washed and
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Defects % by weight (Max):- (i) Discolouration	3%	5%	7%
	(ii) Crushed & Split leaves	2%	4%	6%
(ii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/ Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 g shall be drawn from primary sample called as Laboratory sample

## 69. CLUSTER BEANS

Common name: गूँवार फली/ Kothavarangai  
(Tamil)/Kothamara (Malayam)/Chikkudu (Telugu)/ Valore KeDane  
(Gujarati)



English name: Cluster Beans

Botanical name: Cyamopsis tetragonoloba Varieties  
name: Durgajay, Agaita Guara-112, etc

### 1. Cluster Beans shall be-

- intact, firm, clean, properly drained if washed and
- free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (i) Discolouration	3%	5%	7%
	(ii) Crushed & Split	2%	4%	6%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40- 70	Less than 40

### 5. Sampling:

- 5 % or minimum one container shall be randomly selected for sampling.
- 200 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- 200 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 70. RIDGE GOURD

Common name: तुरई/ Peerkangai (Tamil)/Peechinga (Malayalam)/

Beerakaya (Telugu)/दोडका (Marathi)

English name: Ridge Gourd

Botanical name: *Luffa acutangula*



### 1. Ridge Gourd shall be-

- i. Wholesome, firm, fresh, clean, of reasonably uniform size, of same variety and
  - ii. Free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Discoloration	3%	5%	10%
	(ii) Skin defects (Bruising/scratches/cut) (1-7 sq cm of total surface area)	3%	5%	10%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour	More than 70	Between 40- 70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogeneously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 71. RADISH

Common name: मूली / Mullangi (Tamil, Malayalam and Telugu)

English name: Radish

Botanical name: Raphanus sativus



Variety Name: Pusa Des, Pusa Chetki, Pusa Reshmi, Nadauni etc

### 1. Radish shall be-

- i. Wholesome, firm, fresh, clean, of reasonably uniform size, of same variety and
- ii. Free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Size (mm)</b>	<b>Upto 350</b>	<b>Upto 250</b>	<b>Upto 150</b>
(ii)	<b>Defects % by count (Max):-</b>			
	(i) Mechanical injury	2%	5%	10%
	(ii) Skin defects (Bruising/scratches/cut) (1-10 sq cm of total surface area)	2%	5%	7%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 72. Sweet Corn

Common name: स्वीट कॉर्न/ Makkacholam (Tamil)/



Madhura cholam (Malyalam) / Theepi Mokkaionna (Telugu)

English name: Sweet Corn

Botanical name: Zea mays

### 1. Sweet Corn shall be-

- i. Wholesome, firm, fresh, clean, of reasonably uniform size, of same variety and
- ii. Free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Size (mm)</b>	<b>Upto 250</b>	<b>Upto 200</b>	<b>Upto 150</b>
(ii)	<b>Defects % by count (Max):- (i) Broken</b>	2%	4%	6%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

(i) 5 % or minimum one container shall be randomly selected for sampling

(ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample

(iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



### 73. Capsicum (Green)

Common name: शशमला शमचय / Kodaimiliga (Tamil)/Kuda mulaga (Malyalam)/ Vanta Mirapakaya (Telugu)

English name: Capsicum/ Bell-Pepper/Green pepper

Botanical name: *Capsicum annuum*



#### 1. Capsicum shall be –

- i. Wholesome, firm, fresh, clean, of same variety and
- ii. Free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

#### 4. Criteria for Range designation :

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b> (i) Discoloration	2%	4%	6%
	(ii) Skin defects due to rubbing (Bruising/scratches) (1-4 sq cm of total surface area)	5%	7%	10%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

#### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 74. Jimikand (Suran)

Common name: सुरन /Boomi Sakkarailangu (Tamil)/ Chaena  
(Malyalam)/ Kandha (Telugu)

English name: Elephant foot yam

Botanical name: *Amorphophallus paeoniifolius*



### 1. Jimikand shall be –

- i. Wholesome, firm, fresh, clean, of same variety and
- ii. Free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
<b>(i)</b>	<b>Defects % by count (Max):-</b>			
	(i) Irregular Shape & maturity development	2%	4%	6%
	(ii) Skin defects (Cracks/Cuts/Scratches)	3%	5%	10%
<b>(ii)</b>	<b>Range Acceptance</b>	95 %	90 %	85 %

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 3 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 3 nos. shall be drawn from primary sample called as Laboratory sample

75.

**CUMIN**

Common name : जीरा

English name : Cumin

**Botanical name:** *Cuminum cyminum* (L)**1. Cumin shall be-**

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety.....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	9.0	10.0	10.0
(ii)	Foreign matter (% by wt) Max	2.0	3.0	5.0
(iii)	Broken/Damaged /discoloured (% by wt) Max	3.0	4.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Non volatile ether extract % (m/m)	Not less than 8.0		
(v)	Volatile oil % (ml/100 gm) (min.)	Not less than 1.0		

**5. Sampling:**

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 100gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample

**6. Definitions :**

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (i) Damaged and discoloured seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (i) Broken seeds are pieces of sound kernels that are less than three fourths of the size of full seeds.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 76. RED CHILLIES

Common name: लाल शमचय

English name : Red Chillies



**Botanical name:** *Capsium annuum* (L)

### 1. Red Chillies shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot .....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	9.0	10.0	11.0
(ii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iii)	Broken/Damaged/Discoloured (% by wt) Max	4.0	5.0	6.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Capsaicinoids content % (m/m)	Not less than 0.3		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged and discoloured are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iii) Broken fruits are pieces of sound fruits that are less than three fourths of the size of full kernels.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 77. TURMERIC

Common name : हल्दी

English name : Turmeric

**Botanical name:** *Curcuma longa* L



### 1. Turmeric shall be-

- i. clean, dried, wholesome, having characteristic odour and flavor, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation,

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	11.0	12.0
(ii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iii)	Defective Rhizomes (% by wt) Max	5.0	7.0	10.0
(iv)	Damaged matter (% by wt) Max	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Curcuminoid content % (m/m)	Not less than 2.0		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Defective rhizomes” means Shriveled fingers and or bulbs, internally damaged, hollow or porous rhizomes, rhizomes scorched by boiling and other types of damaged rhizomes.
- (ii) Foreign matter includes dust, dirt, stones, lumps of earth, chaff, stems or straw, food grains including oil seeds of any other variety or any other impurity.
- (iii) Damaged fruits are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanically injured fingers or bulbs.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 78. AJWAIN

Common name : अजवाइन

English name : Bishops Seed

Botanical name : *Trachyspermum ammi*.L Sprague



### 1. Ajwain seeds shall be :-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	11.0	11.0
(ii)	Foreign matter (% by wt) Max	1.5	2.0	3.0
(iii)	Weevilled/Damaged/dicoloured seeds (% by wt) Max	1.5	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Volatile oil % (ml/100 gm)	Not less than 1.5		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 100gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged/Discoloured seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iii) Weevilled seeds are partially or wholly bored by insects injurious to seed but do not include germ eaten seeds and egg spotted seeds.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## CORIANDER WHOLE

Common name: साबतू धतनया

English name: Coriander whole

Botanical name: *Coriandrum sativum*



### 1. Coriander( Whole) shall be :-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Visible Color	Green	Light Brown	Brown
(ii)	Moisture (% by weight) Max	8.0	9.0	11.0
(iii)	Foreign matter (% by weight) Max	1.0	2.0	3.0
(iv)	Damaged /Coriander Split seeds (% by weight) Max	8.0	12.0	15.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Total Ash % (m/m)	Not more than 7.0		
(vi)	Acid insoluble ash % (m/m)	Not more than 1.5		
(vii)	Volatile oil % (ml/100 gm)	Not less than 0.1		

### 5. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (i) Damaged/Discoloured seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (ii) Coriander Split is pieces of seeds that are one fourth or less than the full size of the whole seed.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 80. DRIED RAW MANGO SLICES

Common name: आमचर / Mangavathal (Tamil)/Unakka Mango

pool (Malyalam)/ Endina Mamidi mukkalu (Telegu)

English name: Dried Raw Mango Slices Botanical

name: *Mangifera indica*



### 1. Dried Mango Slices shall be–

- i. intact, firm, clean, of same variety and
- ii. free from visible foreign matter, abnormal external moisture, foreign smell ,

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Colour	Natural White	White to Brown	Brown to Black
(ii)	Moisture (% by Weight) Max	12.0	12.0	12.0
(iii)	Damaged & discoloured Slices (% by Weight) Max	2.0	4.0	5.0
(iv)	Extraneous substance (% by Weight) Max	1.0	2.0	4.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Seed Coatings (% by Weight) Max	1.0	3.0	6.0

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 100 g shall be drawn from each selected container and shall be mixed homogenously will be called as primary sample
- (iii) 100 g shall be drawn from primary sample will be called as Laboratory sample

### 6. Definitions:

- (i) Damaged & discoloured slices mean the slices that are eaten by weevils or other insects and includes slices internally damaged by fungus, moisture or heating
- (ii) Seed coatings are exterior covering of the seed.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 81. GUAR SEED

Common name : गुआर

English name : Guar Seed

**Botanical name:** *Cyamopsis tetragonoloba*



### 1. Guar seed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety ..... (to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	11.0	12.0
(ii)	Foreign matter (% by weight) Max	3.0	4.0	5.0
(iii)	Admixture/discolored (% by weight) Max	10.0	15.0	20.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Protein percentage by weight	Not more than 9 %		
(v)	Gum percent by weight	Not less than 67		

### 2. Sampling:-

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 3. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged seeds are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iii) Admixture means the presence of a variety of the same seed other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 82. MAHUA FLOWER

Common name : महुआ फूल

English name : Mahua Flower

**Botanical name:** *Madhuca longifolia*



### 1. Mahua flower shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety.....(to be filled by assayer)
3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture content (% by wt) Max	3.0	5.0	7.0
(ii)	Foreign matter (% by wt) Max	12.0	14.0	16.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Total reducing sugar plus sucrose per cent (Min)	60	50	40
(iv)	Crude fibre per cent by mass on dry basis (Max.)	3	4	5
(v)	Acid insoluble ash per cent by mass on dry basis (Max.)	0.5	1.0	1.5

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions :

- (i) Foreign matter includes sand, stones, pebbles, lumps of earth, clay, mud and vegetable matter of plant other than Mahua flower.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 83. TAMARIND

Common name: इमली

English name : Tamarind

**Botanical name:** *Tamarindus indica* (L)



### 1. Tamarind shall be-

- i. clean, wholesome, reasonably in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Foreign matter (% by wt) Max	1.0	3.0	5.0
(ii)	Moisture content (% by wt) Max	18.0	20.0	25.0
(iii)	Damaged Pods (% by wt) Max	3.0	5.0	8.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Total Ash, per cent By mass on dry basis	4.0	5.0	6.0
(v)	Crude fibre, per cent by mass on dry basis	7.0	8.0	9.0

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions :

- (i) Foreign matter includes sand, stones, and pebbles, lumps of earth, clay, mud and vegetable matter of plant other than tamarind.
- (ii) Damaged pods means insect damaged pods and those which are devoid of pulp.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 84. JAGGERY

Common name: गूड़

English name: Jaggery



### 1. Jaggery shall be-

- i. of clean, firm consistency, non sticky, reasonable size & shape (*Lumps/Bheli/Chaku/Luddoo/Balti/Solid Cake/Cubes/bricks etc.*), colour characteristic to the variety,
- ii. free from abnormal flavours, obnoxious smell, fungus infestation, fermentation and dirt .

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Colour	Light Golden/Golden /Yellow White	Dark Golden/Yellow Golden	Light Brown/Brown/ Dark Reddish
(ii)	Moisture content (% by wt) Max	8.0	12.0	16.0
(iii)	Foreign matter (% by wt) Max	1.0	1.5	2.0
(iv)	Broken Part (% by weight) Max	2.0	5.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(i)	Total Sugar expressed as invert sugar % (m/m)	Not less than 90 percent and sucrose not less than 60 percent		
(ii)	Total ash %	Not more than 6 percent		
(iii)	Ash insoluble in HCl %	Not more than 0.5		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 3 Nos or 250 gm whichever is applicable shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 3 Nos or 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 85. GROUNDNUT WITH PODS

Common name: तिलके के साथ मूंगफली

English name : Groundnut

**Botanical name:** *Arachis hypogaea* (L)



### 1. Groundnut shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt)	8.0	10.0	12.0
(ii)	Foreign matter (% by wt)	1.0	2.0	3.0
(iii)	Damaged pods (% by wt)	2.0	3.0	5.0
(iv)	Pods of other varieties (% by wt)	3.0	5.0	7.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Shelling (% by wt.)	Not less than 62		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (i) Pods of other varieties means pods other than the one which is under consideration;
- (ii) Damaged pods are internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Shelling means the weight of kernels found in 100 grams of pods.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 86. COCONUT

Common name: खोपरा / Theengai (Tamil)/Thenga (Malayalam)/

Kobbari (Telegu)

English name: Coconut

Botanical name: *Cocos nucifera*



### 1. Coconut (Copra/ dried kernal of coconut) shall be–

- i intact, firm, clean, of same variety and
- ii free from visible foreign matter, abnormal external moisture, foreign smell, mold, smoke, burn

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil content (% by Weight) Min	60.0	58.0	55.0
(ii)	Moisture (% by Weight) Max	7.0	7.0	7.0
(iii)	Wrinkled kernels (% by Weight) Max	10.0	10.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Size Diameter in (mm)	85	75	60

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

### 6. Definitions:

- (i) Wrinkled kernels include balls that are shrunk out of normal shape or are not fully matured or developed or have a rubbery structure and uneven surface. Such kernels are often discoloured.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 87. REETHA

Common name: रीठा /Soppuka, pasakka (Malyalam/  
Kumkudu(Telgu)

English name: Soapnut

Botanical name: Sapindus mucorossi



### 1. Reetha nuts shall be –

- intact, firm, clean, of color characteristics to the variety and
- free from, visible foreign matter, abnormal external moisture, foreign smell ,

### 2. Variety .....(to be filled by assayer)

### 3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Foreign matter (% by Weight) Max	0.5	1.0	2.0
(ii)	Immature & shriveled nuts(% by Weight) Max	2.0	3.0	5.0
(iii)	Damaged and discolored nuts (% by Weight) Max	2.0	3.0	5.0
(iv)	Moisture (% by Weight) Max	9.0	10.0	12.0
(v)	Pods of other variety (% by Weight) Max	4.0	6.0	8.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- 5 % or minimum one container shall be randomly selected for sampling
- 200 g shall be drawn from each selected container and shall be mixed homogenously will be called as primary sample
- 200 g shall be drawn from primary sample will be called as Laboratory sample

### 6. Definitions

- Foreign matter:-Includes inorganic and organic matter. The inorganic matter shall include sand, gravel, dirt, pebbles, stones, glass and metallic pieces, lumps of earth, clay and mud. Organic matter shall include husk, chaff, straw, weed seeds and other inedible grains.
- Damaged and Discolored pods: -Kernels or pieces of kernels that are sprouted or internally damaged as a result of heat, moisture, weather or microbes; discoloured, or discolouration materially affecting the quality.
- Immature and shriveled pods: are those pods which are imperfectly developed and /or shrunken.
- Pods of other varieties: means the pods of other than the principal variety.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 88. Bamboo

Common name: बाँस /Muungil (Tamil)/Mula (Malyalam)/

Veduru (Telugu)/ Baa/Baash (Aasmi)

English name: **Bamboo**

Botanical name: *Bambusa vulgaris as per the variety\**



### 1. Bamboo shall be –

- i. clean, dry, mature and of same variety;
  - ii. cut after same year monsoon
  - iii. free from excessive dryness, tattering, excessive moisture, damage caused by frost/pests/diseases.
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

S.No.	Tradable Parameters	Range-1	Range-2
<b>A.</b>	<b>Essential</b>		
(i)	Girth at thin end	not less than 8 cm	not less than 06 cm
(ii)	Standard Lengths (In meter)	1, 2, 2.15, 2.5, 3.10, 3.70, 4.60, 5.50, 6.40, 7.30 ,8.20,9.10,10.0	0.9 - 1.5,1.5 to 2.14
(iii)	Girth Class (In cm) (Measured at fat end )	12-15 15-20 20-25 25-30 30-35 35-40 40-45 45-50 More than 50	09-12  More than 12
<b>B.</b>	<b>Optional (Industrial/Processor)</b>		
(iv)	Colour	Dull green to Dark Green, Yellow	Dull green to Green, Yellow

7. **Sampling:** 5% or 5 No (whichever is less) of the Lot shall be randomly selected and that will be called as Laboratory Sample.

8. **Definitions:** Variety- that differs from others of the same general kind or of the group to which it belongs.



## 89. COTTON

Common name: कपास

English name : Cotton

**Botanical name:** *Gossypium hirsutum* (L)



### 1. Cotton Seed shall be-

- i. Wholesome, clean, dried; and
- ii. Free from insect & fungus infestation, mould growth, rodent hair and excreta.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Staple length (in mm)	Extra long	Above 32.5	
		Long staple	Above 27.5 to 32.5	
		Medium long staple	Above 25.0 to 27.5	
		Medium staple	20.5 to 25.0	
		Short Staple	Below 20.5	
(ii)	Trash (% by wt) Max	3.0	5.0	7.0
(iii)	Bundle Strength (gm/tex) (mm)	Above 28.0	26.0 and above	24.0 and above
(iv)	Micronaire	2.8 to 3.0	Above 3.0 to 3.5	Above 3.5 to 4.0
(v)	Moisture (% by Weight)	Not more than 10.0		
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(i)	Percentage of Matured fibers (mm)	Above 81.0	Above 75.0-81.0	Above 70.0-75.0

### 5. Sampling:-

- (i) The lint cotton of one variety having reasonably uniform characteristic offered for sale at one time shall constitute a lot.
- (ii) From each of the bale so selected the representative adequate material may be drawn.

### 6. Definitions:

- (i) Micronaire (MIC) is a measure of the air permeability of compressed cotton fibers. It is often used as an indication of fiber fineness and maturity.
- (ii) Trash: often referred to as non-lint, commonly comprises fragments of leaves, bark and grass, as well as particles of sand and dust.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 90. RAW CASHEWNUT

Common name: काजू (कच्चा) /Mundhri (Tamil)/Kasuvandi (Malayalam)/ Jeedi Pappu (Telegu)English name : Raw Cashewnut



Actual Picture above for illustration

Botanical name: Anacardium occidentale

### 1. Raw Cashew nuts shall be –

- i. Intact, firm, clean, of same variety and
  - ii. Free from, visible foreign matter, abnormal external moisture, foreign smell ,
2. Variety Name Variety.....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by Weight) Max	12.0	12.0	12.0
(ii)	Number of nuts per kg. (% by Weight) Max	160	180	210
(iii)	Void nuts (% by Weight) Max	1.0	2.0	3.0
(iv)	Immature nuts (% by Weight) Max	2.0	3.0	5.0
(v)	Damaged and discolored nuts (% by Weight) Max	2.0	3.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	<b>Color (%)</b> <small>(Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)</small>	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 100 g shall be drawn from each selected container and shall be mixed homogenously will be called as primary sample
- (iii) 100 g shall be drawn from primary sample will be called as Laboratory sample

### 6. Definitions:

- (i) Extraneous matter: includes stones, dust, dirt, parts of dried fruits and leaf, etc.
- (ii) Void nuts: in which there are no kernels.
- (iii) Immature nuts: the nuts, the kernels of which are not properly developed and/or shriveled.
- (iv) Damaged and discolored nuts: the nuts containing discolored kernels, decayed, diseased and broken nuts or mechanical injury, materially affecting the quality.

## 91. MOTH

Common names: मोठ /मटकी (मराठी)/ Prani, Chellu(Malayalam)

English name: Moth

Botanical name: *Vigna aconitifolia Jacq Marechal*



### 1. Moth shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	0.1	0.60	1.0
(iii)	Other edible grains (% by wt) Max	1.0	3.0	6.0
(iv)	Damaged grains (% by wt) Max	1.0	3.0	5.0
(v)	Weevilled Grains (% by count) Max	2.5	5.0	10.0
(vi)	Admixture (% by wt) Max	1.0	2.0	3.0
(vii)	Immature & Shriveled (% by wt) Max	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(viii)	Added Color	Absent		
(ix)	Uric Acid	Not more than 100mg/kg		
(x)	Aflatoxin	Not more than 30 microgram/kg		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (vi) Immature & Shriveled grains means kernels or pieces of grains that are not fully developed.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 92. LINSEED

Common Name: - अलसी / Avise Ginjalu  
(Telgu)/Tisi,Mosina (Bangla)/ Chananvithu  
(Malyalam)/जवस (मराठी)/



English Name: - **Linseed**

Botanical name:-*Linum usitatisimum* Linn.

### 1. Linseed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety .....(to be filled by assayer)
3. Actual Picture of the lot..... ( to be uploaded by assayer)
4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil Content (% by wt) Min	39.0	33.0	24.0
(ii)	Moisture (% by wt) Max	7.0	8.0	9.0
(iii)	Foreign matter (% by wt) Max	2.0	4.0	6.0
(iv)	Other oil seed (% by wt) Max	1.0	2.0	3.0
(v)	Damaged seed (% by wt) Max	2.0	4.0	8.0
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(vi)	Immature, shriveled and dead seeds	1.0	3.0	6.0

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Seed means any edible seed (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Seed means grains that are sprouted or internally damaged as a result of heat, microbe, and moisture or weather and mechanical injured seed.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 93. RAW JUTE

Common Name: - रॉ जूट / Janapa Nara (Telgu), Pat

(Bangla)/ Chanam (Malyalam)/ताग

(मराठी)/ English Name: - **Raw Jute**

Botanical name: - *Corchorus* spp.



### 1. Raw Jute shall be-

- i. Dried, of minimum reed length of 150 cm, or the effective reed length should not be less than 100 cm
- ii. free from HUNKA, mud and other foreign materials.

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

Tradable Parameter	Range-1	Range-2	Range-3	Range-4	Range-5
<b>Strength (Marks)</b>	Need strength to break the fiber and sharp audible sound at the time of breakage (Excellent 30)	Need less strength to break the fiber and sound will be available at the time of breakage (Good 23)	Need less strength to break the fiber and sound will be available at the time of breakage (Good 23)	Need less strength to break the fiber and feeble sound at the time of breakage (Average 13)	Easily break the fiber and no sound at the time of breakage (Poor 04)
<b>Defects (Marks)</b>	Free from major defects but 10% minor defects may be allowed (25)	90% free from major defects but 20% minor defects may be allowed(17)	80% free from major defects and 30% minor defects may be allowed(09)	80% free from major defects and 30% minor defects may be allowed(09)	70% free from major defects (05)
<b>Root Content (Marks)</b>	< 5% length wise (20)	> 5% - 8% length wise (15)	> 8% - 10% length wise (08)	> 8% - 10% length wise (08)	> 10% length wise (03)
<b>Fineness (Marks)</b>	Very Fine (15)	Very Fine (15)	Fine (10)	Coarse (05)	Coarse (05)
<b>Colour (Marks)</b>	Light creamy to reddish yellow with luster(10)	Light creamy to reddish yellow with luster(10)	Light creamy to reddish yellow with luster(10)	Reddish / brownish with some light grey (05)	Light grey to dark grey (03)
<b>Total Score</b>	Above 80	Above 60	Above 40	Above 20	Less than 20

### 5. Sampling:-

- (i) 5% or minimum one Bunch shall be randomly selected for sampling.
- (ii) 1 kg shall be drawn from each selected Bunch and shall be mixed homogenously, called as primary sample.
- (iii) 1 kg shall be drawn from primary sample called as Laboratory sample.

### 6. Note

- (i) Natural dust may be allowed in Range 3 to 5 with proportionate discount.
- (ii) Root content will include hard barky croppy ends.
- (iii) Scores on the table may be taken as guidance for determining the discount.
- (iv) HUNA: Defects caused by non-removal of dried up base and hard bark from the fibers

## 94. SAFFRON

Common Name: - के सर/ के सर(मराठी),Kunkuma Puvvu (Telgu)/  
Japharan(Jafran) (Bangla)/Kunkumapoovu(Malyalam) English  
Name: - **Saffron** Botanical name:-*Crocus sativus*



*Linnaeus*

### 1. Saffron shall be-

- clean, of dark red colour, pleasant aroma characteristic to the variety;
- free from obnoxious smell and fungus infestation.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	8.0	10.0	12.0
(ii)	Foreign matter (% by wt) Max	0.5	1.0	1.5
(iii)	Floral waste (% by wt) Max	7.0	8.0	10.0
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(iv)	Added color	Absent		
(v)	Total Ash on dry basis (% by wt) (Max.)	8		
(vi)	Ash Insoluble in dilute HCl on dry basis (% by wt) (Max.)	Not more than 1.5%		
(vii)	Solubility in cold water on dry wt. basis (% by wt)	Not less than 65%		
(viii)	Crude fibre on dry basis (% by wt)	Not more than 6%		
(ix)	Total Nitrogen on dry basis	Not more than 2 %		
(x)	Coloring strength expressed as direct reading of absorbance of 440 nm of dry basis	Not less than 80 %		

### 5. Sampling:-

- 5% or minimum one container shall be randomly selected for sampling.
- 1 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 1 g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- "Foreign matter":-It includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- Floral Waste:- Yellow filaments that are unattached and separated pollens, stamens, parts of ovaries and other parts of flowers of *Crocus sativus* *Linnaeus*.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 95. DRUMSTICK

Common Name:- ड्रमस्टिक / शवगा (मराठी)/ Guggala  
(Kannada)/Munaga Kaya (Telgu)/Sajna data  
(Bangla)/Muringakkaya (Malyalam), English Name:

- Drumstick

Botanical name:- *Guilandina moringa* L.



### 1. Drumstick shall be-

- clean, wholesome, of colour characteristic to the variety;
- free from obnoxious smell and fungus infestation.

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	Appearance(Size, Shape & Color)	Superior	Very Good	Good
(ii)	Defects Scars/cut/ Bruising (% by weight) Max	5	10	15
(iii)	Range Acceptance (%)	95	90	85

### 5. Sampling:

- 5% or minimum one container shall be randomly selected for sampling.
- 200g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 200g shall be drawn from primary sample called as Laboratory sample.

## 96. RAISINS

Common Name: - ककसशमस / बेदाने(मराठी)/ Endu Draksha

(Telgu)/ Kismis (Bangla)/ Unakkamuntiri (Malyalam)

English Name: -Raisins

Botanical name:- *Vitis vinifera* L



### 1. Raisins shall be-

- clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - free from obnoxious smell and fungus infestation.
- Variety..... (to be filled by assayer)
  - Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	13.0	14.0	15.0
(ii)	Damaged Raisins (% by wt) Max	1.0	1.5	2.0
(iii)	Pieces of stem/kg. (Max.)	Absent	2	4
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(iv)	Cap-Stem/500 gm. (Max)	40	50	Above 50
(v)	Immature raisin percent by weight (Max.)	2	4	6
(vi)	Sugared Raisins (Dried Grapes) percent by weight (Max.)	5	10	15

### 5. Sampling:-

- 5% or minimum one container shall be randomly selected for sampling.
- 500g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 500g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- “Damaged Raisins” means Raisins that are internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- Cap-stem - Small woody stem exceeding 3 mm in length which attaches the grape to the branch of the bunch and whether or not attached to a raisin.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement



## 97. MAHUA SEED

Common Name: - महुआ बीज / महुआ बीज (मराठी)/Eppa Puvvu  
(Telgu)/ Mohua beej (Bangla)/Ilippa (Malyalam)/ English Name: -  
Mahua Seed

Botanical name:-*Madhuca longifolia*



### 1. Mahua Seed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Oil Content (% by wt) Min	40.0	38.0	35.0
(ii)	Moisture (% by wt) Max	7.0	8.0	9.0
(iii)	Foreign matter (% by wt) Max	2.0	4.0	6.0
(iv)	Broken & damaged seed (% by wt) Max	10.0	15.0	20.0
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(i)	Color	Reddish yellow	Dark brown	

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) "Foreign matter":-It includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) "Broken":- shall include those seeds which are less than three-fourth but more than one-fourth of a whole seed.
- (iii) "Damaged Seed" means grains that are damaged as a result of heat, microbe, moisture or weather and mechanical injury.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 98. PINEAPPLE

Common Name: - अनानास / अननस (मराठी)/ Anasa Pandu (Telgu)/ Anaras (Bangla)/ Kaitachakka (Malyalam) English Name: -Pineapple

Botanical name:-*Ananas comosus*



### 1. Pineapple shall be-

- i. clean, wholesome of colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	Weight in Kg (Min)	1.5	1.0	Less than 1.0
(ii)	Defects (%) Scars/cut/ Bruising	2.0	4.0	Above 4.0
(iii)	Range Acceptance (%)	90	85	80

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 5 Nos. shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 5 Nos. shall be drawn from primary sample called as Laboratory sample

## 99. TEZPATTA (BAY LEAVES)

Common Names: - तजपत्ता /तमालपत्र (मराठी)/ Biryani Aku (Telgu), Tezpatta(Bangla),  
Tamalapatram (Malyalam),

English Name: - Bay leaves

Botanical name: **Laurus nobilis**



### 1. Tezpat shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	Appearance	Superior	Very Good	Good
(ii)	Defects (% by weight) (Max)	1.0	10.0	above 10.0
(iii)	Range Acceptance (%)	95	90	85
(iv)	Colour	Light green	Slight brown	Brown

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 50g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 50g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Damage means leaves that are internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 100. TENDER COCONUT

Common name: **हरा नारयल**

English name: Coconut Botanical

name: *Cocos nucifera*



### 1. Coconut shall be–

- i. intact, firm, clean, of same variety and
- ii. free from visible defects, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Weight (kgs)</b>	1.0 to 2.0	Below 1.0 and more than 2.0	Below 1.0 and more than 2.0
(ii)	<b>Defects % by count (Max):-</b> <b>Colour</b> (paler/brown part of any region including bruises)	10%	15%	Above 15%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85 %

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample.

## 101. FENUGREEK (WHOLE)

Common names: मेंथी  
साबत

English name: Fenugreek  
Botanical name: *Trigonella foenum-graecum*



### 1. Fenugreek shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	9.0	9.5	10.0
(ii)	Foreign matter (% by wt) Max	0.7	1.3	1.9
(iii)	Other edible seeds (% by wt) Max	1.0	1.5	2.0
(iv)	Damaged/Discoloured seeds (% by wt) Max	1.0	1.5	2.0
(v)	Weevilled seeds (% by count) Max	2	4	6
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(vi)	Total Ash % (m/m) (max.)	5.0	7.0	
(vii)	Acid insoluble ash % (m/m) (max.)	1.5	2.0	
(viii)	Cold water soluble extract % (m/m) (Min)	30.0		
(ix)	Crude Fiber % (m/m) (Max.)	15.0	18.0	

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains” means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Discoloured seeds mean seeds or pieces of seeds that have changed colour as a result of deteriorative changes.
- (v) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 102. FENUGREEK LEAVES (Methi)

Common names: हरी मेंथी

English name: Fenugreek Leaves

Botanical name: *Trigonella foenum-graecum*



### 1. Methi shall be –

- i. intact, firm, clean, properly drained if washed and
  - ii. free from visible foreign matter, abnormal external moisture, foreign smell
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S. No.	Tradable Parameters	Range-1	Range-2	Rang-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (i) Discolouration  (ii) Leaf Stem	3%  Fenugreek Leaf stem must not exceed 2 cm in length	5%  Fenugreek Leaf stem must not exceed 4 cm in length	7%  Fenugreek Leaf stem must not exceed 6 cm in length
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- (iii) 500 g shall be drawn from primary sample called as Laboratory sample

## 103. FENNEL SEED

Common names: सौंफ

English name: Fennel seed

Botanical name: *Foeniculum vulgare Mill*



### 1. Fennel seed shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
  - ii. free from obnoxious smell and fungus infestation.
2. Variety..... (to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Rang-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	11.0	12.0
(ii)	Foreign matter (% by wt) Max	1.5	3.5	4.5
(iii)	Other edible seeds (% by wt) Max	1.0	1.5	2.0
(iv)	Damaged/Broken seeds (% by wt) Max	1.5	3.0	4.0
(v)	Immature/ Shriveled/discoloured/ blackened seeds (% by count) Max	2.5	4.0	6.0
<b>B.</b>	<b>Optional Parameters (Industrial/Processor)</b>			
(vi)	Volatile Oil % (ml/100gm)	2.0	1.5	1.0
(vii)	Crude Fiber (% by weight)	11.0	13.0	15.0

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains” means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Discoloured seeds mean seeds or pieces of seeds that have changed colour as a result of deteriorative changes.
- (v) Immature grains means kernels or pieces of kernels that are not fully developed.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 104. ISABGOL

Common names: इसबगोल

English name: Isabgol

Botanical name: *Plantago ovate Forsk*



### 1. Isabgol shall be-

- i. clean, white to off white in colour, odour less and have thin shaped structures, 2 to 3mm long and 0.5 to 1mm wide.
  - ii. free from fungus infestation.
2. Variety .....(to be filled by assayer)
  3. Actual Picture of the lot.....( to be uploaded by assayer)
  4. **Criteria for Range designation :**

S.No	Tradable Parameters	Range-1	Range-2	Rang-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture (% by wt) Max	10.0	11.0	12.0
(ii)	Extraneous matter (% by wt) Max	1.0	1.5	2.0
<b>B.</b>	<b>Optional (Processor/ Industrial)</b>			
(iii)	Total Ash(% by weight ) on dry basis	2.0	2.5	3.0
(iv)	Acid insoluble Ash (% by weight ) on dry basis	0.1	0.2	0.3

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100g shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Extraneous matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 105. Pointed GOURD

Common name: परवल

English name: Pointed Gourd

Botanical name: *Trichosanthes dioica*



### 1. Pointed Gourd shall be-

- i. Wholesome, tender, firm, fresh, clean and blemish free surface, of reasonably uniform size, of same variety and
- ii. Free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Discoloration	5%	10%	15%
	(ii) Skin defects (Bruising/scratches/cut/blemishes) (1-3 sq cm of total surface area)	5%	10%	15%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Size as Diameter</b>	25 to 45 mm		
(iv)	<b>Color –Green (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 100g Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 200g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 106. Pumpkin

Common name: कद्दू

English name: Pumpkin

Botanical name: *Cucurbita pepo L.*



### 1. Pumpkin shall be –

- i. Wholesome, firm (thick core), reasonably uniform size & shape, fresh, clean, of same variety and
  - ii. Free from, visible foreign matter, abnormal external moisture, foreign smell
2. Variety..... (to be filled by assayer)
3. Actual Picture of the lot ..... ( to be uploaded by assayer)
4. **Criteria for Range designation:**

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
<b>(i)</b>	<b>Weight / Piece ( Kg)</b>	1- 20		
<b>(ii)</b>	<b>Defects % by count (Max):-</b>  Skin defects (cracks/cut/rotten spots) (1-9 sq cm of total surface area)	10%	15%	20%
<b>(iii)</b>	<b>Range Acceptance</b>	90 %	85 %	80 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
<b>(iv)</b>	<b>Color of flesh – Yellow (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 107. Large Cardamom

Common name: बड़ी इलायची

English name : Large Cardamom

**Botanical name:** Elettaria cardamomum (L)



### 1. Large Cardamom shall be-

- (i) Dried, clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- (ii) free from wild cardamom, obnoxious smell and fungus infestation.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Moisture(% by wt) Max	Up to 11 %	up to 12 %	up to 13 %
(ii)	Foreign matter(% by wt) Max	1.0	5.0	
(iii)	Immature, Shriveled & Insect damaged capsules (% by wt) Max	3.0	5.0	
(iv)	Empty and malformed capsules (% by wt.)	5.0	8.0	
(v)	Mass in gm/L (Min)	350	300	
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Tail cut	Yes		
(vii)	Colour	Pink	Brown	Brown
(viii)	Acid insoluble ash % (m/m) (max.)	2.0		
(ix)	Total Ash % (m/m)(max.)	8.0		
(x)	Volatile oil % (ml/100 gm) (min.)	Not less than 0.5		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 25gm (100 g in case of single container) shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Empty and Malformed capsules are capsules without seed or are scantily filled with seeds.
- (iii) Immature and shriveled and insect damaged capsules which are not fully developed or are damaged by insects,

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 108. Colocasia vegetable

Common name: अरबी

English name: **Colocasia vegetable**

Botanical name: *Colocasia esculenta*



### 1. Colocasia vegetable shall be –

- i. fresh, firm, of color characteristics to the variety
- ii. free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Extraneous matter (% by weight) Max	5%	10%	12%
	(ii) Skin defects (cracks/scratches/cut/branching) (2-5sq cm of total surface area)	5%	10%	15%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Diameter</b>	More than 25mm	15 to 25 mm	up to 15
(iv)	<b>Length</b>	30-45		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

### 7. Definitions :

- (i) Extraneous matter includes husk, straws, weed seeds, sand, gravel, dirt, pebbles, lumps of earth, clay, mud and animal filth etc.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 109. Betel Leaves

Common name: पान पत्ता

English name: **Betal Leaves**

Botanical name: *Piper betel* leaves.



### 1. Betal Leaves shall be –

- Mature & stalk intact, color characteristics true to variety, fresh, clean
- Free from visible foreign matter, foreign smell and taste, pest, larvae and mites,

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (iii) Cracks/holes/tears/bruises	5%	10%	15%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Size</b>	Length: upto 7cm Width: upto 4cm	Length: 7cm to 15cm Width: 4cm to 10cm	Length: 15 cm above Width: 10 cm above
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- 5 % or minimum one container shall be randomly selected for sampling.
- 10 No. shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- 10 No. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 110 PAPAYA

Common name: **पपीता**

English name: **Papaya**

Botanical name: ***Carica papaya***



**1. Papaya shall be-**

- i. intact, firm, clean, ripened to proper state, of reasonably uniform size & shape, color characteristics to the variety
  - ii. free from visible foreign matter, abnormal external moisture, foreign smell.
- 2. Variety** .....(to be filled by assayer)
- 3. Actual Picture of the lot**..... ( to be uploaded by assayer)
- 4. Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b> (Cuts/cracks/bruises/black spot/soft patches) (1-3sq. cm. of total surface area)	5%	7%	10%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color(%):- Partly Green /Yellow</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(iv)	<b>Weight in kg</b>	0.5 to 2.0	More than 2.0	

**5. Sampling: -**

- (iv) 5 % or minimum one container shall be randomly selected for sampling
- (v) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (vi) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 111. IVY GOURD

Common name: कुंदरू

English name: Ivy/Scarlet Gourd

Botanical name: *Coccinia grandis*



### 1. Ivy Gourd shall be-

- i. Wholesome, tender, firm, fresh, clean and blemish free surface, of reasonably uniform size, of same variety and
- ii. Free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Discoloration	5%	10%	15%
	(ii) Skin defects (Bruising/scratches/cut/ blemishes) (1-3 sq cm of total surface area)	5%	10%	15%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color –Green (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 15 nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 15 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

112. Areca nut (Betel Nut)

Common name: स ो  
री

English name: **Areca nut (Betel Nut)**

Botanical name: *Areca catechu*

Varieties name: Moti special, Shrivardhan special, Jamnagarspecial, Jeeni special. Meetupalayam special, pooja special, koka special etc.



**1. Areca nut shall be-**

- i. Whole fully husked, of light color, reasonably matured, reasonably uniform size & shape, color characteristics to the variety
- ii. Free from blemish, cracks, fissure, shrinkage
- iii. shall not be worm eaten and hollow inside.

**2. Variety** ..... (to be filled by assayer)

**3. Actual Picture of the lot**..... ( to be uploaded by assayer)

**4. Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	<b>Size</b> (diameter of the equatorial section))	20-30 mm	15-19mm	Not less than 12 mm
(ii)	<b>Defects % by count (Max):-</b> Skin defects (scratches scars, scrapes and blemishes)	10 %	15 %	20%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

**5. Sampling: -**

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 100gm shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 113 Tuberose

Common name: रजनीगंधुं ा

English name: Tuberose

Botanical name: Polianthes tuberose Linn.



1. Tuberose shall be –
  - (i) not in dry condition, Clean free from any visible foreign matter, pest, insect cut and damage caused by them or diseases or mechanical damage due to handling, loading, unloading and transportation affecting the general appearance of the produce, reasonably uniform size & shape, color
  - (ii) free from artificial colouring
2. Variety.....(to be filled by assayer)
3. Actual Picture of the Lot.....
4. **Criteria for Range designation:**

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Essential</b>			
(i)	Color (characteristics to the variety)	Bright White	slight brighter white to milky white	Reasonable white to milky white
(ii)	Blooming and Shape	Perfect bloomed and conical shape More than 95 %	Slightly bloomed and conical shape More than 90 %	Reasonable bloomed and conical shape More than 85 %
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Stem Length in cm	Above 45	30 to 45	Below 30

### 5. Sampling:

- (i) 5 % or minimum one bunch shall be randomly selected for sampling from each bunch.
- (ii) 5 Nos spikes shall be drawn from each selected bunch and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. spikes shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 114 Marigold

Common name: गेंदाफूल

English name: Marigold

Botanical name: Tagetes erecta, Tagetes tenuifolia, Tagetes patula, Tagetes minuta



1. Marigold shall be -
  - (i) Clean free from any visible foreign matter, pest, insect cut and damage caused by them or diseases or mechanical damage due to handling, loading, unloading and transportation affecting the general appearance of the produce, reasonably uniform size & shape, color
  - (ii) free from artificial colouring
2. Variety .....(to be filled by assayer)
3. Actual Picture of the Lot.....
4. **Criteria for Range designation:**

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Essential</b>			
(i)	Color (characteristics to the variety)	Superior Bright Yellow to Golden yellow	slight brighter reddish with yellow sparkling	Reasonable brighter brown and white
(ii)	Shape and Blooming	Perfect bloomed and round disc shape More than 95%	Slight bloomed and round disc shape More than 90%	Reasonable bloomed and round disc shape More than 85%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Moisture %	Upto 40%		

5. **Sampling:**
  - (i) 5 % or minimum one container shall be randomly selected for sampling
  - (ii) 100 gm shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
  - (iii) 100 gm shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 115. Buckwheat

Common name : Kuttu / कुट्टू

English name : Buckwheat

**Botanical name:** *Fagopyrum esculentum*



### 1. Buckwheat shall be-

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety,
- ii. free from obnoxious smell and fungus infestation,

2. Variety ..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture (% by wt) Max	12.0	13.0	14.0
(ii)	Foreign matter (% by wt) Max	1.5	3.0	4.0
(iii)	Admixture/Other edible grains (% by wt) Max	3.0	5.0	7.0
(iv)	Damaged/ immature & Shrivelled grains (% by wt) Max	3.0	5.0	7.0
(v)	Weevilled Grains (% by count) Max	3.0	5.0	7.0
<b>B.</b>	<b>Optional (Industrial/ Processor)</b>			
(vi)	Uric Acid	Not more than 100mg/kg		
(vii)	Aflatoxin	Not more than 30 microgram/kg		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 116. SNAKE GOURD

Common name: चकचकण्डा

English name: Snake Gourd

Botanical name: *Trichosanthes cucumerina*

### 1. Snake Gourd shall be-

- i. Wholesome, firm, fresh, clean, of reasonably uniform size, of same variety and
- ii. Free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Length	300-750 MM		All sizes not conforming to Range 1 & 2
	Diameter	40-60 MM		
	Skin defects Damage (Bruising/scratches/cut) (1-7 sq cm of total surface area)	3%	5%	10%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%) Green with white strips</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	More than 40	

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 117. STRAWBERRIES

Common name: स्ट्रॉबेरी

English name: **Strawberries**

Botanical name: *Fragaria × ananassa*



### 1. Strawberries shall be-

- i. intact, firm, clean, of reasonably uniform size, & shape, color characteristics to the variety
  - ii. Reasonably free from visible foreign matter, abnormal external moisture, foreign smell, Mould infestation
  - iii. With calyx intact and short green un-withered stalk attached
2. Variety..... (to be filled by assayer)
3. Actual Picture of the lot ..... ( to be uploaded by assayer)
4. **Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Size</b> (Diameter) mm	Above 25	Above 18	
(ii)	<b>Traces of Soil</b>	Absent	Sight traces	
(iii)	<b>Defects by count (Max):-</b> (i) White patches (up to 10% of surface area of fruit)  (i) Scratches & bruises (up to 10% of surface area of fruit)	NIL  3%	10%  5%	20%  7%
(iv)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	<b>Color (%)</b> (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	More than 40	

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 118. Amla

Common name: अमृवला

English name: **Indian Goosberry**

Botanical name: *Phyllanthus emblica*



### 1. Amla shall be-

- i. clean, intact, firm, of reasonably uniform size, & shape, color characteristics to the variety
  - i. free from visible foreign matter, abnormal external moisture, foreign smell, mould infestation
2. Variety..... (to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Size</b> (Diameter) mm	Above 35	Above 25	
(ii)	<b>Defects by count (Max):-</b> (iii) Skin defects- bruising, sunspots, latex burns (up to 4 sq cm of total surface)	3%	5%	7%
(iii)		<b>Range Acceptance</b>		
		95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	More than 40	

### 5. Sampling: -

- (iv) 5 % or minimum one container shall be randomly selected for sampling
- (v) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (vi) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 119. Horse gram

Common name: कुल्फी  
English name : Horse gram



**Botanical name:** Macrotyloma uniflorum

### 1. Horse gram shall be:

- clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- free from obnoxious smell and fungus infestation.

### 2. Variety.....(to be filled by assayer)

### 3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture (% by wt) Max	10.0	12.0	14.0
(ii)	Foreign matter (% by wt) Max	1.0	2.0	3.0
(iii)	Admixture/Other edible grains (% by wt) Max	2.0	3.0	4.0
(iv)	Damaged grains (% by wt) Max	4.0	5.0	7.0
(v)	Weevilled Grains (% by count) Max	3.0	6.0	10.0
(vi)	Immature & Shrivelled (% by wt) Max	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/ Processor)</b>			
(i)	Uric Acid	Not more than 100 mg/kg		
(ii)	Aflatoxin	Not more than 30 microgram/kg		
(iii)	Total of foreign matter, other edible grains and damaged grains	Not more than 12 percent by weight		

### 5. Sampling:-

- 5% or minimum one container shall be randomly selected for sampling.
- 100 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 120. DRY GINGER

Common name: सोंठ

English name: Dry Ginger

Botanical name: *Zingiber officinale*



### 1. Dry ginger shall be-

- (i) wholesome, firm, clean, same variety; and
- (ii) free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture (% by Weight) max	10.0		12.0
(ii)	Extraneous matter % (max)	1.0		2.0
(iii)	<b>Insect Damaged % (max)</b>	1.0		
(iv)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	<b>Volatile Oil on dry basis</b>	Not less than 1.5 %		
(vi)	<b>Total ash on dry basis</b>	8.0 ( unbleached) 12 ( bleached)		
(vii)	<b>Calcium as Calcium oxide on dry basis % (max)</b>	1.1 (Unbleached)		
		2.5 (Bleached)		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 50 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 121. Lobia Pods

Common name: लोबबया फली / चावली (मराठी) English

name: Green long Cowpea Pods

Botanical name: *Vigna sinensis*



### 1. Lobia Pods shall be-

- i. intact, firm, clean, properly drained if washed and
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects % by weight (Max):-</b> (i) Discolouration	3%	5%	7%
	(ii) Crushed & Split	2%	4%	6%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 200 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement

## 122. DOLICHOS BEAN

Common name: सेम फली / घेेवड़ा (मरेाठेी)

English name: Dolichos bean, Hyacinth bean or Field bean

Botanical name: *Lablab purpureus L. (Sweet)*



### 1. Green Lobia Beans shall be-

- i. intact, firm, clean, properly drained if washed and
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Essential</b>			
(i)	<b>Defects % by weight (Max):-</b> (iii) Discolouration	3%	5%	7%
	(iv) Crushed & Split	2%	4%	6%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40- 70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 200 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 123. CARNATIONS

Common name: गलनार

English name: Carnation

Botanical name: Dianthus caryophyllus



1. Carnation shall be –
  - (i) not in dry condition, Clean free from any visible foreign matter, pest, insect cut and damage caused by them or diseases or mechanical damage due to handling, loading, unloading and transportation affecting the general appearance of the produce, reasonably uniform size & shape, color
  - (ii) free from artificial colouring
2. Variety.....(to be filled by assayer)
3. Actual Picture of the Lot.....
4. **Criteria for Range designation:**

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Primary</b>			
(i)	Blooming and Shape	Perfect bloomed and shaped More than 95 %	Slightly bloomed and in shape More than 90 %	Reasonable bloomed and in shape More than 85 %
(ii)	<b>Minimum length (in cms)</b>	60 cm to 38 cm		
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(iv)	<b>Minimum Flower Diameter</b>	6.9 cms to 5 cm		

Note: Due to verietal differences and climatic conditions in the various growing areas, flower dimmensions may vary.

### 5. Sampling:

- (i) 5 % or minimum one bunch shall be randomly selected for sampling from each bunch.
- (ii) 5 Nos spikes shall be drawn from each selected bunch and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. spikes shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 124. GLADIOLUS

Common name: ग्लॅडियस

English name: Gladiolus

Botanical name: *Gladiolus*



1. *Gladiolus* shall be –
  - (i) not in dry condition, Clean free from any visible foreign matter, pest, insect cut and damage caused by them or diseases or mechanical damage due to handling, loading, unloading and transportation affecting the general appearance of the produce, reasonably uniform size & shape, color
  - (ii) free from artificial colouring
2. Variety .....(to be filled by assayer)
3. Actual Picture of the Lot.....
4. **Criteria for Range designation:**

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Primary</b>			
(i)	Blooming and Shape	Perfect bloomed and with stem More than 95 %	Slightly bloomed and with stem More than 90 %	Reasonable bloomed and with/without stem More than 85 %
(ii)	<b>Minimum length (in cms)</b>	115 cm to 80 cm		
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40
(iv)	<b>Minimum Flower Diameter</b>	8.75 cms to 6.25 cm		

Note: Due to varietal differences and climatic conditions in the various growing areas, flower dimensions may vary.

### 5. Sampling:

- (i) 5 % or minimum one bunch shall be randomly selected for sampling from each bunch.
- (ii) 5 Nos spikes shall be drawn from each selected bunch and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. spikes shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 125. APRICOT

Common name: Khubani/खुमानी /Khurmaani / Jardaalu (Kannada)

English name: Apricot

Botanical name: [P. armeniaca](#)



### 6. Apricot shall be.-

- iv. Fresh , clean , mature, firm, of reasonably uniform size & shape, color characteristics to the variety, with/without stalk
- v. Reasonably free from visible foreign matter, abnormal external moisture, foreign smell, mould infestation and bore.
7. Variety..... (to be filled by assayer).
8. Actual Picture of the lot ..... ( to be uploaded by assayer).
9. **Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(vi)	Size in Diameter )mm(	Above 35	Below 35	
(vii)	<b>Defects by count:-</b> Bruised marks / slight bruising/soft patches upto 1 sq. cm.	Upto10%	Upto 15%	Upto 20%
(viii)	Range Acceptance	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(ix)	Color (%) (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	More than 40	

### 10. Sampling: -

- (vii) 5 % or minimum one container shall be randomly selected for sampling.
- (viii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (ix) 5 Nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 126. ARHAR DAL SPLIT

Common name: ARHAR DAL SPLIT, अरहर/तूर दाल

English name : Red gram-split

Botanical name: *Cajanus cajan*



### 1. Arhar Dal whole shall be.–

- i. Clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety, with or without husk.
- ii. Free from any obnoxious smell and fungus infestation.

2. Variety ..... (to be filled by assayer).

3. Actual Picture of the Lot..... ( to be uploaded by assayer) .

### 4. Criteria for Range designation :

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Primary</b>			
(i)	Moisture, (% by wt), Max.	11.0	12.0	14.0
(ii)	Foreign matter, (% by wt) Max.	1.0	1.5	2.0
(iii)	Other edible grains, (% by wt) Max.	1.0	2.0	3.0
(iv)	Damaged grains, (% by wt) Max.	2.5	3.5	5.0
(v)	Weevilled grains, (% by count) Max.	3.0	5.0	10.0
(vi)	Admixture, (% by wt) Max.	1.0	2.0	3.0
(vii)	Broken fragments, (% by wt) Max.	1.0	2.0	3.0
<b>B</b>	<b>Optional (Processor/ Industrial)</b>			
(viii)	Uric Acid	Not more than 100mg/kg		
(ix)	Aflatoxin	Not more than 30 microgram/kg		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter: includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains: means any edible grains (including oil seeds) other than the one which is under consideration.
- (iii) Damaged Grains: means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanically injured grains in case of whole pulses.
- (iv) Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 127. SAFED PETHA

Common name: Safed petha/ सफ़े द पेठा / कद्दू

English name: Ash gourd Botanical

name: *Benincasa hispida*



### 1. Safed Petha shall be.–

- fresh, clean, wholesome, firm (thick core), reasonably uniform size & shape, of same variety.
- free from, visible foreign matter, abnormal external moisture, foreign smell.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot..... (to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameter	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Weight / Piece ( Kg)	Upto 12	Upto 20	Above 20
(ii)	<b>Defects % by count (Max):-</b> Skin defects (cracks/cut/rotten spots) (1-9 sq cm of total surface area)	10%	15%	20%
(iii)	Range Acceptance	90 %	85 %	80 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Color (%) (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	Between 40- 70	Less than 40

### 5. Sampling:

- 5 % or minimum one container shall be randomly selected for sampling.
- 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 5 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 128. BER

Common name: Ber/बेर

English name: Indian jujube

Botanical name: *Ziziphus mauritiana*



### 1. Ber shall be.–

- i. firm, clean, of reasonably uniform size, & shape, color characteristics to the variety, with or without stalk.
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell, mould infestation and bore.

2. Variety ..... (to be filled by assayer) .

3. Actual Picture of the lot ..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Size (mm) Length & Diameter	Upto 50	Upto 35	Below 35
(ii)	<b>Defects</b> <b>% by count (Max):-</b> Slight bruising/ soft patches ( upto 1 sq. cm of total surface area)	3%	5%	7%
(iii)	Range Acceptance	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Color (%) (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample.
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 129. BLACK PEPPER WHOLE

Common name: काली शमचय ( साबुत)

English name : Black Pepper (Whole )

Botanical name: *Piper nigrum*



**1. Black Pepper-Whole shall be.–**

- i. clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. free from obnoxious smell and fungus infestation.
- iii. free from artificial color , coating of mineral oil.

**2. Variety.....** (to be filled by assayer)

**3. Actual Picture of the lot.....** ( to be uploaded by assayer)

**4. Criteria for Range designation:**

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, %(m/m), Max.	10.0	11.0	12.0
(ii)	Extraneous matter, % (m/m)	Up to 1%	Up to 2%	
(iii)	Pinheads & broken berries, %(m/m),	Up to 4.0%	Up to 6%	Up to 8%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Bulk Density g/L,	490 & above	Below 490	
(v)	Total ash %(m/m) on dry basis Max.	6.0	6.5	7.0
(vi)	Light berries %(m/m),	Up to 5.0	Up to 7.5	Up to 10.0
(vii)	Piperine content, %(m/m) on dry basis, Min.	4.0	3.0	2.0
(viii)	Volatile oil, % (ml. 100 gm) on dry basis,	Up to 2.5	Up to 2.0	Above 1.0
(ix)	Non-volatile ether extract %(m/m) on dry basis,	Up to 6.0	Up to 5.5	Up to 5.0

**5. Sampling: -**

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

**6. Definitions:**

- (i) Broken berries means berry that has been separated into two or more pieces;
- (ii) Extraneous matter includes dust, stones, earth or any other inorganic foreign matter;
- (iii) Light berries means berry that has reached an apparently normal stage of development but the kernel does not exist;
- (iv) Extraneous matter means all materials other than black pepper berries, irrespective of whether they are of vegetable origin;
- (v) Pinhead means berry of very small size that has not developed;

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 130. MOONG DAL SPLIT

Common name: Moong Dal /म दाल



English name : Green gram-Split.

Botanical name: *Vigna radiata* (L).

#### 1. Moong Dal shall be.–

- i. With or without husk split,
- ii. Wholesome, reasonably uniform in size, shape and color characteristic to the variety.
- iii. free from rodent hair and excreta, moulds, living and dead insects, insects fragments, obnoxious smell and fungus infestation, discoloration.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

#### 4. Criteria for Range designation:

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, (% by wt), Max	11.0	12.0	14.0
(ii)	Foreign matter, (% by wt), Max	1.0	1.5	2.0
(iii)	Other edible grains, (% by wt), Max	1.0	2.0	3.0
(iv)	Damaged grains, (% by wt) , Max	2.5	3.5	5.0
(v)	Weevilled grains, (% by count), Max.	3.0	5.0	7.0
(vi)	Admixture, (% by wt), Max.	1.0	2.0	3.0
(vii)	Broken fragments, (% by wt), Max.	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg.		
(ix)	Aflatoxin	Not more than 30 microgram/kg.		

#### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

#### 6. Definitions:

- (iv) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filthetc.
- (v) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (vi) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- (vii) Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (viii) Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (ix) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 131. CHANA DAL SPLIT

Common name: Chana dal/चना दाल

English name : Chana Dal Split, Bengal Gram-Split

Botanical name: *Cicer arietinum*.



#### 1. Chana Dal shall be.–

- i. With or without husk split.
- ii. clean, wholesome, reasonably uniform in size, shape and color characteristic to the variety.
- iii. free from rodent hair and excreta, moulds, living and dead insects, insects fragments, obnoxious smell and fungus infestation, discoloration.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot .....( to be uploaded by assayer).

#### 4. Criteria for Range designation:

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, (% by wt), Max.	11.0	12.0	14.0
(ii)	Foreign matter, (% by wt), Max.	1.0	1.5	2.0
(iii)	Other edible grains,(% by wt), Max.	1.0	2.0	3.0
(iv)	Damaged grains, (% by wt) Max.	2.5	3.5	5.0
(v)	Weevilled grains, (% by count), Max.	3.0	5.0	7.0
(vi)	Admixture (% by wt) Max	1.0	2.0	3.0
(vii)	Broken fragments, (% by wt) Max.	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg.		
(ix)	Aflatoxin	Not more than 30 microgram/kg.		

#### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

#### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- (iv) Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 132. URD DAL SPLIT

Common name: Urd dal/उड़द दाल

English name : Urd Dal/Black Gram-split.

Botanical name: *Vigna mungo L.*



#### 1. Urd Dal shall be.-

- With or without husk split, uniform in size, shape and in color
- Clean, wholesome, reasonably uniform in size, shape and color characteristic to the variety.
- Free from rodent hair and excreta, moulds, living and dead insects, insects fragments, obnoxious smell and fungus infestation, discoloration.

2. Variety ..... (to be filled by assayer).

3. Actual Picture of the lot ..... ( to be uploaded by assayer).

#### 4. Criteria for Range designation:

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, (% by wt), Max.	11.0	12.0	14.0
(ii)	Foreign matter, (% by wt), Max.	1.0	1.5	2.0
(iii)	Other edible grains,(% by wt), Max.	1.0	2.0	3.0
(iv)	Damaged grains, (% by wt), Max.	2.5	3.5	5.0
(v)	Weevilled grains, (% by count), Max.	3.0	5.0	7.0
(vi)	Admixture, (% by wt), Max.	1.0	2.0	3.0
(vii)	Broken fragments, (% by wt), Max.	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg.		
(ix)	Aflatoxin	Not more than 30 microgram/kg.		

#### 5. Sampling:

- 5 % or minimum one container shall be randomly selected for sampling.
- 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 250 gm shall be drawn from primary sample called as Laboratory sample.

#### 6. Definitions:

- Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 133. KABULI CHANA WHOLE

Common name:      ी  
काबल                   चना



English name : Kabuli Chana Whole

Botanical name: *Cicer arietinum*

**1. Kabuli Chana shall be.–**

- i. wholesome, reasonably uniform in size, shape and color characteristic to the variety.
- ii. free from rodent hair and excreta, moulds, living and dead insects, insects fragments, obnoxious smell and fungus infestation, discoloration.

**2.** Variety ..... (to be filled by assayer).

**3.** Actual Picture of the lot ..... ( to be uploaded by assayer).

**4. Criteria for Range designation:**

Sr.No	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, (% by wt), Max.	11.0	12.0	14.0
(ii)	Foreign matter, (% by wt), Max.	1.0	1.5	2.0
(iii)	Other edible grains,(% by wt), Max.	1.0	2.0	3.0
(iv)	Damaged grains, (% by wt), Max.	2.5	3.5	5.0
(v)	Weevilled grains, (% by count), Max.	3.0	4.0	5.0
(vi)	Admixture, (% by wt), Max.	1.0	2.0	3.0
(vii)	Broken fragments (% by wt), Max.	1.0	2.0	3.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Uric Acid	Not more than 100mg/kg.		
(ix)	Aflatoxin	Not more than 30 microgram/kg.		

**5. Sampling:**

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

**6. Definitions:**

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one which is under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses ;
- (iv) Weevilled grains: means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the variety in consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 134. TINDA

Common name: Tinda/ टटडा

English name: Indian round gourd/ Tinda.

Botanical name: *P. fistulosus*.



### 1. Tinda shall be.–

- i. fresh, clean, wholesome, tender, firm and blemish free surface, of reasonably uniform size, of same variety and preferably hairy surface.
- ii. free from visible foreign matter, soil, abnormal external moisture, foreign smell.
- iii. free from artificial color, coating of oil or application of any harmful substances.

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....( to be uploaded by assayer)

### 4. Criteria for Range designation :

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Size (mm)	30 to 50		Below 30 & Above 50
(ii)	<b>Defects % by count :</b> Skin defects: (Bruising/scratches/superficial healed cut/blemishes( upto 3 sq cm of total surface area)	Upto 5%	Upto 10%	Upto 15%
(iii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Color (%) (Characteristic true to the variety) Scale (1 to 100) /Visual	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 10 nos. shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 135. JAMUN

Common name: जामुन

English name: Java Plum.

Botanical name: *S. cumini*.



### 1. BBBBB shall be.–

- i. intact, clean, of reasonably uniform size & shape, color characteristics to the variety, with or without stalk ;
- ii. free from, visible foreign matter, abnormal external moisture, foreign smell , mould infestation and bore.
- iii. free from artificial color, coating of oil or any harmful substances.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot.....( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Size (mm) Diameter	Above 30	Above 25	Upto 25
(ii)	<b>Defects</b> <b>% by count (Max):-</b> Bruising/ soft patches (upto 1 sq. cm of total surface area)	4%	7%	10%
(iii)	<b>Range Acceptance</b>	95 %	90 %	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Color (%) (Characteristic true to the variety) Scale (1 to 100) /Visual	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 10 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 10 Nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 136. CARDAMOMS WHOLE

Common name: Choti elaychi/ िोटी  
 इलायची English name : Cardamoms Whole  
 capsules Botanical name: *Elettaria*  
*cardamomum*



**1. CARDAMOMS capsules shall be.-**

- i. Wholesome, clean, dried, nearly ripened, reasonably uniform in size, oblong shape with a rounded part or three cornered and having ribbed appearance and color characteristic to the variety;
- ii. well formed capsule contains sound seeds;
- iii. free from obnoxious odor or flavor including those of rancidity, mustiness and fungus infestation.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

**4. Criteria for Range designation:**

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, %(m/m), Max.	11.0	12.0	13.0
(ii)	Extraneous matter , %, (m/m), Max.	1.0	2.5	5.0
(iii)	Empty and malformed capsules % by count	3.0	5.0	7.0
(iv)	Immature and shriveled capsules (Max.)	3.0	5.0	7.0
(v)	Black and split percent by count(Max.)	5.0	10.0	15.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Bulk Density g/L	Upto 435	Above 400	Up to 400
(vii)	Total Ash, % (m/m),	Not more than 9.5		
(viii)	Volatile oil % (ml/100 gm) on dry basis,	Not less than 3.5		

**5. Sampling: -**

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

**6. Definitions:**

- (i) Extraneous matter includes stones, dust, earth or any other inorganic foreign matter it also includes pieces of Calyx, stalk and foreign matter of plant origin.
- (ii) Empty and malformed capsules means which have no seeds or are scantily filled with seeds.
- (iii) Immature and Shrivelled capsules means which are not fully developed.
- (iv) Blacks include capsules which are blackish to black in colour.
- (v) Splits include capsules which are open at corners for more than half the length.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 137. CLOVES WHOLE

Common name: लौंग

English name : Clove

Botanical name: *Syzygium aromaticum*



### 1. Clove shall be.–

- i. Wholesome, clean, dried, fully grown but unopened floral buds, reasonably uniform in size, shape and colour characteristic to the variety;
- ii. well formed and contains sound seeds.
- iii. free from obnoxious odour or flavor including those of rancidity and mustiness and fungus infestation.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot..... (to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, %(m/m) ( Max.)	11.0		12.0
(ii)	Extraneous matter % (m/m) (Max.)	1.0	2.0	5.0
(iii)	Headless cloves percent by mass	Upto 3.0	Upto 5.0	Upto 10.0
(iv)	Immature and Khoker cloves, percent by mass (Max.)	2.0	3.0	5.0
(v)	Insect damage,% (Max)	2.0	3.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Volatile oil % (ml/ 100 gm) on dry basis (Min.)	17.0	15.0	14.0

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Extraneous matter includes dust, dirt, stones, and lumps of earth, also vegetative part of cloves plant, other than cloves, such as tendrils, peduncles, cloves stems, mother cloves etc.
- (ii) Headless Cloves: A Clove consisting of only the receptacle and sepals and which has lost the domed shaped head.
- (iii) Khoker Cloves: A Clove which has undergone fermentation as a result of incomplete drying as evidenced by its pale brown.
- (iv) Insect damages cloves means the cloves that the partially or wholly bored by the insects.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 138. NUTMEG WHOLE

Common name:जायफल

English name : **Nutmeg**

Botanical name: *Myristica*

*fragrans*



### 1. Nutmeg shall be.–

- i. wholesome, clean, dried seeds, fully grown, reasonably uniform in size, shape and color characteristic to the variety,
- ii. free from obnoxious odor or flavor including those of rancidity, mustiness and fungus infestation,
- iii. spherical or slightly ovoid in shape with grayish brown color and surface marked with numerous furrows,
- iv. free from any extraneous color or oil coating.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

Criteria for Range designation: S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, %(m/m),	Upto 10.00	Upto 12.0	Upto 14.0
(ii)	Mace in Nutmeg %(m/m)	Upto 3.0		
(iii)	Extraneous matter	absent		
(iv)	Insect damaged, broken kernels, percent by mass	3.0	4.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Volatile oil % content dry basis	Not less than 6.5%		

### 4. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 5. Definitions:

- (i) Insect damages kernels means the kernels that partially or wholly bored by the insects.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 139 COCONUT WITH HUSK

Common name: Naariyal / नारियल

English name: Coconut Botanical  
name: *Cocos nucifera*



### 1. Coconut shall be.–

- i. With water or without water inside kernel, fibered or
- ii. de- fibered , dry skin of same variety
- iii. Intact ,firm, free from visible defects, foreign smell
- iv. If de-fibered from three sides, but not more than 15 % of fruit weight

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot.....(to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i)	Weight (gms.)	Above 500	400 to 500	Below 400
(ii)	<b>Defects % by count :- Cracks( de-fibered)</b>	absent	Upto 10%	Upto 15%
(iii)	Range Acceptance	95 %	90 %	85 %

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 5 Nos. shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 140. OATS RAW

Common name: Jaye / जई  
English name : Oats (Raw)  
Botanical name: *Avena sativa*



### 1. Oats Raw shall be :-

- clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety.
- free from abnormal flavours, obnoxious smell and fungus infestation.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture % by mass, Max.	10.0	12.0	15.0
(ii)	Foreign matter, % by mass, Max.	2.0	3.0	5.0
(iii)	Admixture/Other edible grains (% by wt), Max.	3.0	5.0	7.0
(iv)	Damaged/Weeviled grains % by mass	2.0	3.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Uric Acid, (Max.)	Not more than 100mg/kg		
(vi)	Aflatoxin, (Max.)	Not more than 30 microgram/kg		

### 5. Sampling: -

- 5 % or minimum one container shall be randomly selected for sampling.
- 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- Foreign matter: includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- Other Edible Grains: means any edible grains (including oil seeds) other than the one which is under consideration;
- Damaged & Weevilled Grains: grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 141. CHERRY RED / BLACK

Common name: Cherry / चरी

English name: Cherry

Botanical name: *Prunus avium* , *Prunus cerasus*



### 1. Cherry shall be.–

- i. intact, firm, green un-withered stalk attached to each fruit.
  - ii. clean, of reasonably uniform size, & shape, color characteristics to the variety.
  - iii. reasonably free from visible foreign matter, abnormal external moisture, foreign smell, moulds infestation.
2. Variety..... (to be filled by assayer).
3. Actual Picture of the lot ..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Size in diameter (maximum of the equatorial section of the fruit in mm)	Above 20	Upto 20	
(ii)	<b>Defects by count (Max):-</b> (iv) Hail Damage	Absent	20%	40%
	(v) Bruised / Blemishes (up to 10% of surface area of fruit)	5%	10%	20%
(iii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Color (%) (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	More than 40	

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 10 Nos. shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 142. BANANA RAW

Common name: Kaccha Kela / कच्चा के ला

English name: Banana (Raw)

Botanical name: *Musa acuminata*



### 1. Green Banana shall be.–

- i. green, firm, white flesh, color characteristics to the variety.
  - ii. reasonably free from visible and other visible defects, foreign smell, mould/pest infestation.
  - iii. with calyx, short green un-withered stalk attached and should be in bunches.
2. The stalk is not torn but clearly cut, without damage to the neighboring fingers.
3. Variety..... (to be filled by assayer).
4. Actual Picture of the lot ..... ( to be uploaded by assayer).
5. **Criteria for Range designation:**

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects(% by count)</b> (i) Cuts/Bruising/black spots( upto 20 mm on surface)	Upto 10%	Upto 15%	Above 15%
(ii)	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Diameter(mm)	30.00 and above		Below 30
(iv)	Length (mm)	110 and above		Below 110

### 6. Sampling: -

- (i) 5 % or minimum one bunch shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected bunches and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 143. PAPAYA RAW

Common name: Kaccha Papita/ पपीता (कच्चा)

English name: Green-papaya

Botanical name: Carica papaya



### 1. Papaya shall be.–

- green, firm, clean, uniform size & shape, color characteristics to the variety.
- reasonably free from visible foreign matter, foreign smell, mould/pestinfestation.
- with short green un-withered stalk attached with the fruit.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects % by count :-</b> Cuts, cracks, bruises, black spots and soft patches ( upto 3 sq. cm of surface area )	<b>Upto 10</b>	<b>Upto 15</b>	<b>Above 15</b>
(ii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Weight of individual fruit (gm.)	250- 1000		Below 250 and above 1000

### 5. Sampling: -

- 5 % or minimum one container shall be randomly selected for sampling.
- 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 5 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 144. NEEM SEEDS

Common name: Nimbori / तनबोरी

English name: Neem seed

Botanical name: *Azadirachta indica var. minor Valetton*



### 1. Neem seed shall be.–

- (i) naturally dried, wholesome, reasonably uniform size, & shape, color characteristics to the variety.
- (ii) free from visible foreign matter, abnoxious smell, fungus infestation and soil clumps or particles.
- (iii) hard and without pulp and outer seed coat.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot ..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Foreign matter (% by wt.),	Upto 2.0	Upto 4.0	Upto 6.0
(ii)	Damaged seeds (% by wt.),	Upto 4.0	Upto 5.0	Upto 6.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	No. of seeds /kg	Less than 300	300 to 325	More than 325
(iv)	Moisture (% by wt.),	Upto 4.0	Upto 8.0	Above 8
(v)	Oil content (% by wt.)	Above 20		

### 5. Sampling-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions –

- (i) Foreign matter: includes husk, straws, weed seeds, other inedible items, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged seeds: seeds that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured seeds.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 145. JUTE SEEDS

Common name: Jute seeds / जूट बीज

English name: Jute seeds

Botanical name: white jute (*Corchorus copluris*) , tossa jute ( *C. olitorius*)



### 1. Jute seeds shall be.–

- (i) naturally dried, clean, of reasonably uniform size & shape, color characteristics to the variety.
- (ii) free from visible foreign matter, abnoxious smell, external moisture, soil clumps or particles.
- (iii) hard, detached completely from the spike, free from each other.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot ..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Foreign matter (% by wt.)	Upto 3.0	Upto 5.0	Upto 8.0
(ii)	Damaged seeds (% by wt.)	Upto 4.0	Upto 5.0	Upto 6.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Moisture (% by wt.)	Upto 4.0	Upto 8.0	Above 8.0

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions –

- (i) Foreign matter: includes husk, straws, weed seeds, other inedible items, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Damaged seeds: seeds that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured seeds.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 146. TAPIOCA

Common name: **Tapioca** / टैपओका  
English name: **Tapioca** Botanical  
name: *Manihot esculanta*



### 1. Tapioca shall be.-

- i. firm and straight, with small portion of root firmly cut, characteristics to the variety.
  - ii. free from insects and pest
2. Variety..... (to be filled by assayer).
3. Actual Picture of the lot ..... ( to be uploaded by assayer).
4. **Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Tuber Length(cm)	Above 30	20 to 30	Below 20
(ii)	<b>Defects by count :-</b> (cut/blemishes)	Upto 4.0	Upto 6.0	Upto 8.0
(iii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Woody %	absent	Upto 5	Upto 10

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 5 Nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 147. ROSE CUT FLOWER

Common name: Gulab/गुलब

English name: Rose

Botanical name: *Rosa*



### 6. Rose shall be --

- i. fresh, clean, not in dry condition, free from any visible foreign matter, pest, insect, cut and damage caused by them or diseases or mechanical damage due to handling, loading, unloading and transportation affecting the general appearance of the produce,
- ii. free from artificial color and flavor.

7. Variety.....(to be filled by assayer)

8. Actual Picture of the Lot..... ( to be uploaded by assayer).

### 9. Criteria for Range designation:

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Primary</b>			
(v)	Color (Characteristic true to the variety)	More than 70	Between 40 to70	Less than 40
(vi)	Shape & Blooming	Perfect bloomed and straight, strong stems more than 95 %	Slightly bloomed and practically straight stem more than 90 %	Reasonable bloomed, sufficiently strong, straight, more than 80%
(vii)	Range Acceptance	95%	90 %	85%
<b>B</b>	<b>Optional (Industrial/Processor)</b>			
(viii)	Stems length in cms	Above 50	30 to 50	Below 30

### 10. Sampling:

- (iv) 5 % or minimum one bunch shall be randomly selected for sampling from each bunch.
- (v) 5 Nos spikes shall be drawn from each selected bunch and shall be mixed homogenously, called as primary sample.
- (vi) 5 nos. spikes shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 148. CHHAPPAN KADDU

Common name: Chhappan kaddu/चिप्पन कद्दू English  
name: Summer squash/vegetable marrow Botanical  
name: *Cucurbita pepo*



### 1. Chhappan kaddu shall be.-

- fresh, firm, clean, characteristics to the variety, with stalk intact
- free from visible foreign matter, abnormal external moisture, foreign smell, insect infestation.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Weight/piece(gm)</b>	Upto 100	above 100	above 150
(ii)	<b>Defects % by count (Max):</b> Skin defects (cracks/cut/rotten spots) (1-5)sq. cm. of total surface area.	10%	15%	20%
(iii)	<b>Range Acceptance</b>	90 %	85 %	80 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	<b>Color (%)</b> (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- 5 % or minimum one container shall be randomly selected for sampling
- 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 149. PERSIMMON

Common name: Persimon/जापानी फल

English name: Persimmon

Botanical name: Diospyros kaki



### 1. Persimmon shall be.-

- intact, with the calyx attached, which may be with or without peduncle and dry and brown, clean, reasonable uniform in size, and characteristics to the variety,
- free from visible foreign matter, abnormal external moisture, foreign smell, insect infestation.

2. Variety..... (to be filled by assayer).

3. Actual Picture of the lot ..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects</b> % by count: Skin defects (sun defects/ bruising/ cracks/cut/rotten spots) upto 3 sq. cm. of total surface area.	Upto10%	Upto 15%	Upto 20%
(ii)	<b>Range Acceptance</b>	90 %	85 %	80 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Color (%) (Characteristic true to the variety) Scale 1 to 100 /Visual	More than 70	Between 40-70	Less than 40

### 5. Sampling: -

- 5 % or minimum one container shall be randomly selected for sampling.
- 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- 5 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 150. WALNUTS IN SHELL

Common name: Akharot- in shell/ अखरोट खोल सटहत

English name: Walnut-in shell

Botanical name: *Juglans regia*



### 1. Walnut in shell shall be.–

- i. dry, intact, matured, of reasonably uniform size, shape and color characteristics to the variety.
  - ii. free from visible foreign matter, abnormal, external moisture, foreign smell, mould/insect infestation visible to the naked eye.
  - iii. of current year crop
2. Variety ..... (to be filled by assayer).
3. Actual Picture of the lot ..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, (% by wt.)	Upto 10%	Upto 11%	Upto 12%
(ii)	<b>Defects by count :</b> affecting the external appearances of the shell such as shells with adhering husk/hull, dirt and blemishes, open, broken or damaged shell	Upto 7%	Upto 10%	Upto 15%
(iii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Size in diameter (mm)	26 and above	24 and above	Below 24
(v)	Empty and stony shell % in wt.	Absent	1%	2%

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 151.Chrysanthemum

Common name: गुलदाउदी

English name: Chrysanthemum

Botanical name: *Dendranthema grandiflora*



### 1. Chrysanthemum shall be. -

- (i) clean and fresh;
- (ii) Reasonably free from any foreign matter, damage caused by insects & diseases;
- (iii) uniform in size/color and stage of openness within each bunch;
- (iv) free from shattering, burning, diseases and chemical residue;
- (v) having two third of stem with foliage.

### 2. Variety/colour..... (to be filled by assayer).

### 3. Actual Picture of the lot.....(to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i)	Shape and Blooming	Perfect stage of openness, flower should be uniform More than 95%	Slight Perfect stage of openness, flower should be uniform More than 90%	Reasonably Perfect stage of openness, flower should be uniform More than 85%
(ii)	Flower diameter (in cm.)	Above 12	10-12	below10
(iii)	length of stem (in cm.)	Above 60	below 60	
(iv)	Min. flower per stem	1		
(v)	Range Acceptance	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(vi)	Color (in % ) (Characteristic true to the variety)	More than 70	Between 40 to70	Less than 40

### 5. Special Note

- (i) Removal of all flowers buds except the terminal one to allow one flower to develop per stem.
- (ii) Recommended storage temperature range is 20-22 degree centigrade, relative humidity 90%.
- (iii) Flowers may be packed with a net covering.

### 6. Sampling

- (i) 5 % or minimum one picking unit shall be randomly selected for sampling.
- (ii) 5 nos. picking unit shall be drawn from each selected bunch and shall be mixed homogenously called as primary sample.
- (iii) 5 nos. picking unit shall be drawn from primary sample called as laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 152. Gerbera

Common name: जरबेरा

English name: Gerbera

Botanical name: *Gerbera jamesonii*



### 1. Gerbera shall be.-

- (i) clean and fresh;
- (ii) reasonably free from any visible foreign matter;
- (iii) at the stage of openness and free from shattering;
- (iv) free from shattering, discoloration, burning, and damage caused by insects, diseases, and chemical residues.

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Stem length (in cm.)	More than 60	50-60	below 50
(ii)	Flower diameter (in cm.)	More than 10	8-10	Below 8
(iii)	Shape and Blooming	Perfect stage of openness, flower should be uniform More than 95%	Slight Perfect stage of openness, flower should be uniform More than 90%	Reasonably Perfect stage of openness, flower should be uniform More than 85%
(iv)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Min. Flowers per stem	1		
(vi)	Color ( in % ) (Characteristic true to the variety)	More than 70	Between 40 to 70	Less than 40

### 5. Special Note

- (i) Foliage and stems should be free from physical damage (bruises and breakage) including spots, holes, rotted tissue, wilting, burning or discoloration.
- (ii) The bunch/individual bud may be wrapped in corrugated paper to protect them from mechanical injury.
- (iii) Flowers uniform in size, not less than 8 cm diameter with straight, strong stem minimum length of 40 cm, if packed loose and mixed .
- (iv) Recommended storage temperature range is 20-22 degree centigrade, relative humidity 90%.

### 6. Sampling:

- (i) 5 % or minimum one picking unit shall be randomly selected for sampling.
- (ii) 5 nos of picking unit shall be drawn from each selected bunch and shall be mixed homogenously , called as primary sample.
- (iii) 5 nos. picking unit shall be drawn from primary sample called as laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 153. Anthurium

Common Name: एंथुरीअम - पु®

English name: Anthurium

Botanical name: *Anthurium andraeanum*



### 1. Anthurium shall be. -

- (i) clean and fresh;
- (ii) reasonably free from any visible foreign matter, damage caused by insects & diseases;
- (iii) uniform in size/color and stage of openness within each bunch;
- (iv) free from physical damage (bruises and breakage) including spots, holes, rotted tissue wilting, burning, or discoloration;
- (v) called as anthurium, tailflower, flamingo flower, laceleaf etc.

2. Variety/colour..... (to be filled by assayer).

3. Actual Picture of the lot..... (to be uploaded by assayer).

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i)	Shape (colorful heart shaped structure, generally referred to as flower)	Perfect heart shape Spathe	90 % heart shape Spathe (small to medium)	85 % heart shape Spathe
(ii)	Spathe diameter (in cm.)	15 above	10 -15	Less than 10
(iii)	Length of spathe (overall length from tip of spathe to base of the stem). (in cm.)	50 above	25-50	Less than 25
(iv)	Min. flower per stem	1		
(v)	Range Acceptance	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(vi)	Color ( in % ) <b>(Characteristic true to the variety)</b>	More than 70	Between 40 to70	Less than 40

### 5. Special Note

- (i) Recommended storage temperature range is 20-22 degree centigrade, relative humidity 90%.
- (ii) Flowers may be packed with a net covering.
- (iii) Stem should be free from discoloration, burning and physical damage caused by insects, diseases - and chemical residue.
- (iv) Spathe has a waxy appearance and shapes varies depending on the variety.
- (v) Overall length equals to tip of spathe to base plus stem.

### 6. Sampling: -

- (i) 5 % or minimum one picking unit shall be randomly selected for sampling.
- (ii) 5 nos. spathe shall be drawn from each selected bunch and shall be mixed homogenously called as primary sample.
- (iii) 5 nos. spathe shall be drawn from primary sample called as laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 154. TULIP

Common name: तुल्ललड

English name: Tulips

Botanical name : *Tulipa hybrid, T.orphanidea, T.clusiana*



### 1. Tulips shall be.-

- (i) clean and fresh;
- (ii) reasonably free from soil, dust, damage caused by insects & diseases;
- (iii) large, showy, many colors, bi-colors and of various petal shapes;
- (iv) single, double, ruffled, fringed or lily-shaped depending on the variety;
- (v) free from shattered petals, burning, wilting, discoloration, black spots & chemical residues.

2. Variety & color.....( to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Shape and blooming (may have incredible height and shapes characteristic of variety)	Perfect stage of openness, flowers should be uniform. More than 95%	Perfect stage of openness, flowers should be uniform. More than 90%	Perfect stage of openness, flowers should be uniform. More than 85%
(ii)	Min. flower per stem	1		
(iii)	Stem length (in cm.)	35 above	35-30	below 30
(iv)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Stem deviation/ Curvature(max.)	2cm	2.2cm	2.5cm
(vi)	Color ( in % ) <b>(Characteristic true to the variety)</b>	More than 70	Between 40 to70	Less than 40

### 5. Special Note

- (i) Recommended storage temperature range is 22-20 degree centigrade, relative Humidity 90%.
- (ii) Packing of bunch (5-10 stems/bunch) with uniform flowers in stage of maturity & color.
- (iii) Stem strength and deviation should be measured after hydration.

### 6. Sampling: -

- (i) 5 % or minimum one picking unit shall be randomly selected for sampling
- (ii) 5 nos shall be drawn from each selected bunch and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 155. Spray Chrysanthemum

Common name: 4०

गुलदाउदी

English name : Spray Chrysanthemum

Botanical name: *Chrysanthemum indicum*, *C.japonense*,  
*C.lavandulifolium*



### 1. Spray Chrysanthemum shall be.-

- (i) clean and fresh;
- (ii) free from any visible foreign matter, damage caused by insects, diseases;
- (iii) cushion, daisy, spider, button, anemone or micro type shape;
- (iv) having each stem bearing many lateral flowering stems with similar flowers;
- (v) free from shattered petals, discoloration, burning, bruises, breakage, soil, dust.

2. Variety & color .....( to be filled by assayer).

3. Actual Picture of the lot.....( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A</b>	<b>Primary</b>			
(i)	Shape and blooming (may be cushion, daisy, spider, button, anemone or micro shaped flowers)	Perfect stage of openness, flowers should be uniform More than 95%	Perfect stage of openness, flower should be uniform More than 90%	Perfect stage of openness, flowers should be uniform More than 85%
(ii)	length of stem (in cms)	Above 75	75-70	Below 70
(iii)	Min.bloom per stem	5-6	4-5	3-4
(iv)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Color ( in % ) <b>(Characteristic true to the variety)</b>	More than 70	Between 40 to70	Less than 40

### 5. Special Note

- (i) Recommended storage temperature range is 20-22 degree centigrade, Relative humidity 90%.
- (ii) Bunch may be packed with a net covering.

### 6. Sampling: -

- (i) 5 % or minimum one picking unit shall be randomly selected for sampling.
- (ii) 5 nos. bloom shall be drawn from each selected bunch and shall be mixed homogenously, called as primary sample.
- (iii) 5 nos. bloom shall be drawn from primary sample called as laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

156.

## Lily

Common Name: लिली  
 English name: Lily  
 Botanical name: *Lilium sps.*



## 1. Lilies shall be.-

- (i) clean and fresh;
- (ii) free from any visible foreign matter, damage caused by insects and diseases;
- (iii) uniform in size/color and stage of openness within each bunch;
- (iv) having foliage, stem free from physical damage (bruises and breakage) including spots, holes, rotted tissue. wilting, burning, or discoloration.

2. Lilly is leafy star, bowl, funnel and recurved, trumpet shaped flowers at the top of each stem.

3. Variety/colour..... (to be filled by assayer).

4. Actual Picture of the lot..... (to be uploaded by assayer).

## 5. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i)	Color (characteristics of the variety)	Super bright (available in many colors)	Slight bright (available in many colors)	Reasonable brighter (available in many colors)
(ii)	Min. flower per stem	6	3	1
(iii)	Range Acceptance	95 %	90 %	85 %
B.	<b>Optional (Industrial/Processor)</b>			
(iv)	Flower diameter (in cm.)	Above 10	10-7	Below 7
(v)	Length of stem (in cm.)	Above 60	60-50	Below 50

## 6. Special Note.-

- (i) Recommended storage temperature range is 20-22 degree centigrade, relative humidity 90%.
- (ii) Flowers may be packed with a net covering.
- (iii) Stem should be free from discoloration, burning and physical damage caused by insects, diseases and chemical residue.

## 7. Sampling: -

- (i) 5 % or minimum one picking unit shall be randomly selected for sampling.
- (ii) 5 nos. of lilies bunch shall be drawn from each selected sample and shall be mixed homogenously called as primary sample.
- (iii) 5 nos. of bunch shall be drawn from primary sample called as laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 157. CHAKHAO or BLACK RICE

Common name: चाखौ

English name: Chakhao, Black Rice

Botanical name: *Oryza sativa* Linn,



**1. Raw milled Black Scented Rice shall be.-**

- (i) clean, wholesome, long, slender, reasonably uniform in size, shape and black to purple in colour with marked degree of natural fragrance characteristic to the variety;
- (ii) free from obnoxious smell, fungus infestation;
- (iii) free from rodent hair and excreta, animal filth, moulds, live insects, dead insects, insects fragments.

2. Variety/colour..... (to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

**4. Criteria for Range designation:**

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture (% by wt) Max	12.0	13.0	14.0
(ii)	Foreign matter (% by wt) Max	0.20	0.50	0.60
(iii)	Broken/Damaged/Chalky grains (% by wt) Max	5.0	10.0	17.0
(iv)	Red /Green grains/Paddy Grains (% by wt) Max	Nil	3.0	6.0
(v)	Other varieties of rice (% by count) Max	5.0	10.0	15.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Kernel Breadth(mm)	2.0	2.3	2.5
(vii)	Kernel Length(mm)	5.0 mm and above		
(viii)	Length- breadth ratio	2.0 and above		
(ix)	Alkali Spreading Value	2-10		
(x)	Amylose content (%)	4 to 10		

**5. Sampling: -**

- (i) 5 % or minimum one carrying packaging unit shall be randomly selected for sampling.
- (ii) 200 gms shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 200 gms. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 158. MACE WHOLE

Common name: जांवाी

English name : Mace

Botanical name: *Myristica fragrans*



### 1. Mace shall be.–

- (i) clean, dried flattened seed coat or aril of the ripe fruit of nutmeg tree, myristica fragrans Houttuyn, fully grown, color characteristic to the variety.
- (ii) free from admixture, added coloring matter;
- (iii) buff of light brown colour, smooth, brittle and slightly warm taste and a fragrance similar to that of nutmeg;
- (iv) having the characteristic fresh and aromatic odour and bitter acrid and warm flavour;
- (v) free from rancid taste musty odour, off-flavour, mould growth, rodent hair, excreta, filth, moulds, live insects, dead insects insect infestation, rodent contamination.

2. Variety/colour..... (to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, % by wt. (Maximum)	10.0	12.0	
(ii)	Extraneous matter % by wt. (Maximum)	0.5	1.5	2.0
(iii)	Insect damaged, broken kernels, % by wt. (Maximum)	3.0	4.0	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Volatile oil % content dry basis, (Minimum)	Not less than 7.5%		

### 5. Sampling: -

- (i) 5 % or minimum one bag shall be randomly selected for sampling.
- (ii) 100
- (iii) gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iv) 100 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Insect damages seed coat means the arils that partially or wholly bored by the insects.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 159. POPPY SEED

Common name: खसखस

English name : Poppy seed

Botanical name: *Papaver somniferum L.*



### 1. Poppy seed shall be.–

- (i) wholesome, clean, dried seeds, fully grown, reasonably uniform in size, shape and color characteristic to the variety;
- (ii) free from obnoxious odor or flavor including those of rancidity, mustiness, fungus infestation, rodent hair, excreta, filth, moulds, live insects, dead insects, insects fragments and fungus;
- (iii) free from any color or oil.

2. Variety/colour..... (to be filled by assayer).

3. Actual Picture of the lot..... ( to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, % by wt. (Maximum)	10.00	11.00	
(ii)	Extraneous matter, % by wt. (Maximum)	1.0	2.0	3.0
(iii)	Insect damaged, broken kernels, % by wt. (Maximum)	3.0	5.0	10.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Non Volatile ether extracts, on % by wt. on dry basis (Minimum)	50 & above	Upto 45	Upto 40

### 5. Sampling: -

- (i) 5 % or minimum one carrying packaging unit shall be randomly selected for sampling.
- (ii) 50 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 50 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Insect damages seeds means the seeds that are partially or wholly bored by the insects.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 160. CHIRONJI

Common name:

चिरोजी

English name : Cuddapah almond Botanical

name: *Buchanania lanzan* Spreng



### 1. Chironji shall be.–

- (i) mature, wholesome, clean, dried seeds;
- (ii) reasonably uniform in size, shape and color characteristic to the variety;
- (iii) free from obnoxious odor or flavor including those of rancidity, mustiness and fungus infestation, any other edible and non-edible seeds;
- (iv) free from rodent hair, excreta, animal filth, moulds, live insects, dead insects.

2. Variety/colour..... (to be filled by assayer).

3. Actual Picture of the lot..... (to be uploaded by assayer).

4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, % by wt. (Maximum)	5.5	6.0	6.5
(ii)	Extraneous matter % by wt. (Maximum)	0.1	0.25	0.5
(iii)	Damaged, Discolored and broken kernels, % by wt. (Maximum)	2.0	3.5	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Protein content, % by wt. (Minimum)	24	22	19
(v)	Total soluble solids, % by wt. (Minimum)	10.0	8.5	7.5
(vi)	Oil content, % by wt. (Minimum)	54.0	52.0	48.0
(vii)	Acidity of extracted fat expressed as Oleic acid, Max	10.0	12.0	14.0

### 5. Sampling: -

- (i) 5 % or minimum one carrying packaging unit shall be randomly selected for sampling.
- (ii) 50 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 50 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Insect damages seedss means the seeds that are partially or wholly bored by the insects.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 161. SAFED MUSLI

Common name: सफ़े द मूसली

English name : Chlorophytum, Indian Spider Plant, White Musli

Botanical name: *Chloropytum borivilianum* L.



### 1. Safed Musli shall be.–

- (i) Mature, wholesome, clean, dried, fully grown, whitish in colour, reasonably uniform in size, shape and color characteristic to the variety;
- (ii) free from obnoxious odor or flavor including those of rancidity, mustiness and fungus infestation;
- (iii) free from rodent hair, excreta, animal filth, moulds, live insects, dead insects.

2. Variety/colour..... (to be filled by assayer).

3. Actual Picture of the lot..... (to be uploaded by assayer).

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Moisture, % by wt. (Maximum)	9.0	10.0	11.0
(ii)	Extraneous matter, % by wt. (Maximum)	0.2	0.5	0.75
(iii)	Damaged, Discolored and broken kernels, % by wt. (Maximum)	2.0	3.5	5.0
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Crude Fiber, % by wt. (Maximum) (on dry basis)	3.0	4.0	5.0
(v)	Total Ash, % by wt. (Maximum) (on dry basis)	3.5	4.5	5.5
(vi)	Acid Insoluble ash, % by wt. (Maximum) (on dry basis)	0.5	0.7	0.9
(vii)	Saponin content, % by wt. (Maximum) (on dry basis)	15.0	10.0	5.0

### 5. Sampling: -

- (i) 5 % or minimum one packaging unit shall be randomly selected for sampling.
- (ii) 100 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample.

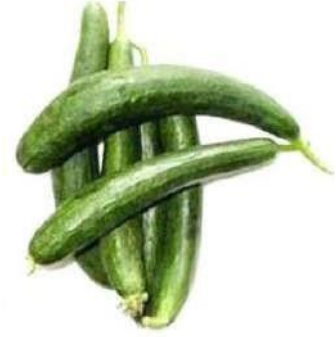
**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 162. SPONGE GOURD

Common name: िगरी तुराई

English name: Sponge Gourd

Botanical name: *Luffa aegyptiaca* Mill., syn. *Luffa cylindrica* Roem



**1. Sponge Gourd shall be.-**

- (i) wholesome, firm, fresh, clean, of reasonably uniform size, of same variety;
- (ii) free from any infestation and undesirable defect.

**2. Variety/colour.....(to be filled by assayer)**

**3. Actual Picture of the lot.....( to be uploaded by assayer)**

**4. Criteria for Range designation :**

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Length	100 to 250 MM		All sizes not conforming to Range 1 & 2
	Diameter	50-60 MM		
	Skin defects Damage (Bruising/scratches/cut) (1-5 sq cm of total surface area)	3%	5%	10%
(ii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Color (%) Green with white strips (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	more than 70%	below 70%	

**5. Sampling: -**

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 5 nos shall be drawn from each selected packing unit and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

### 163. PASSION FRUIT

Common name: पैशन फ्रूट/कुआफल

English name: Passion fruit

Botanical name: *Annona reticulate for purple, Passiflora edulis f. flavicarpa* Deg.for yellow



#### 1. Passion Fruit shall be.-

- (i) whole, with stem/stalk intact, firm, clean, fresh in appearance & color characteristics to the variety ;
- (ii) free from, visible foreign matter, abnormal external moisture, foreign smell, pests and damage, excluding condensation following removal from cold storage, free of cracking.

2. Variety/colour ..... (to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

#### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects % by count (Max):-</b> Blemishes, scars, sunspots, very slight superficial defects (0.5-2 sq. cm. of total surface area)	3%	5%	10%
(ii)	Range Acceptance	95 %	90 %	85 %
<b>Optional (Industrial/Processor)</b>				
(iii)	Size (diameter in mm)	78 & above	56 to 77	Less than 56
(iv)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

#### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 5 nos shall be drawn from each selected packing unit and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 164. Broccoli/Calabrese

Common name: ढोकोली

English name: Broccoli

Botanical name: *Brassica oleracea L.*



Varieties name: Calabrese broccoli, destiny broccoli, and belstar broccoli

### 1. Broccoli flower clusters shall be.-

- (i) fresh in appearance and dark bright green, colour with closed flower buds; clean, free from visible foreign matter, traces of fertilizer or chemicals;
  - (ii) intact, sound, free from rotting or deterioration;
  - (iii) free of pests affecting the general appearance of the produce, any foreign smell and/or taste;
  - (iv) free of damage caused by pests and diseases;
  - (v) free of abnormal external moisture, larvae, mites, caterpillars etc, blackening of tips of flower.
2. Variety/colour..... (to be filled by assayer)
  3. Actual Picture of the lot..... , colour ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects % by count (Max):-</b>			
	(i) Bruising (3 sq cm of total surface area)	5 %	5 %	7 %
	(ii) Colour (1-3 sq cm of total surface area)	3 %	5 %	7 %
	(iii) Wooliness (1-5 sq cm of total surface area)	3%	5%	7%
(ii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 90	Between 60-90	Between 60-90

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 5 nos shall be drawn from each selected packing unit and shall be mixed homogeneously, called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 165. SUGAR SNAP PEAS

Common name: मटर

English name :Sugar Snap peas, Snow pea  
Botanical name: *Pisum sativum* (L)



### 1. The Peas pods shall be.–

- (i) intact, clean and sound, fresh in appearance;
  - (ii) free from black/brown spots on pods, insect damage, rotten tips, free of foreign matter, external moisture; pest and damage caused by pests, any foreign smell;
  - (iii) free from seeds, or if present shall be small and undeveloped.
2. Variety/colour..... (to be filled by assayer)
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. **Criteria for Range designation:**

Sl.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects (Max)</b> (i) Dry skin (covering surface area)	5%	10%	15 %
	(ii) Black/ brown spots	Upto 3%	Upto 7%	Upto 10%
(ii)	Size (Length in mm)	Upto 65mm	Upto 55mm	Upto 45 mm
(iii)	Range Acceptance	95%	90%	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

### 5. Sampling.

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling.
- (ii) 200 g shall be drawn from each selected packing unit and shall be mixed homogenously called as primary sample
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 166. ALOEVERA

Common name: घृत कु मारी

English name: Aloevera

Botanical name: *Aloe barbadensis miller.*



### 1. Aloevera shall be.-

- (i) fresh in appearance and dark green, bright green in colour;
- (ii) intact, firm, clean, sound, produce affected by rotting or deterioration such as to make proper selected produce;
- (iii) free of pests affecting the general appearance of the produce, damage caused by pests and diseases.

2. Variety/colour..... (to be filled by assayer)

3. Actual Picture of the lot..... , colour ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects % by count (Max):- Bruising (1 sq cm of total surface area)</b>	3 %	5 %	7 %
(ii)	Length of stem (in cm)	More than 50	40-50	below 40
(iii)	Thickness (in cm)	More than 3	Upto 2-3	below 2
(iv)	Width (in cm)	More than 6	Upto 5	below 5
(v)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vi)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 90	Between 60-90	Between 60-90

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 5 nos shall be drawn from each selected packing unit and shall be mixed homogenously , called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 167. OYSTER MUSHROOM

Common name: िढंगरी मशरूम (ऑयटर मशरूम)

English name: Oyster Mushroom

Botanical name: *Pleurotus species of the family Pleurotaceae excluding King Oyster mushroom (Pleurotus eryngii species)*



### 1. Oyster Mushroom shall be.-

- (i) whole, cluster or single, fresh - characteristic of the variety;
  - (ii) sound, produce affected by rotting or deterioration such as to make it unfit for consumption is excluded;
  - (iii) clean, practically free of any visible foreign matter;
  - (iv) practically free of pests and damage caused by them affecting the general appearance of the produce;
  - (v) free of abnormal external moisture, free of bruises and blemishes.
2. Variety/colour ..... (to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	<b>Defects ( Oyster mushroom in cluster) for bloom- cap % by count (Max):-</b> Bruising, rubbing and other superficial defects such as brakage and blemishes, (total surface area ) The defects must not, in any case, affect the gill.	3 %	5 %	7 %
	Shape	5%	10%	15%
(ii)	Size (Diameter of the cap in cm)	5 & above	Upto 5	below 3
	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 90	Between 60-90	Between 60-90

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 10 nos shall be drawn from each selected packing unit and shall be mixed homogenously called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 168. Button Mushroom

Common name: कुं भी, कुं करमुका

English name: **Mushroom**

Botanical name: *Agaricus*.



### 1. Button Mushroom shall be.-

- (i) whole, cluster or single, free from poisonous variety, fresh - characteristic of the variety;
- (ii) sound, produce affected by rotting or deterioration such as to make it unfit for consumption is excluded;
- (iii) clean, practically free of any visible foreign matter with the exception of the cultivation substrate adhered to the mushroom base;
- (iv) free of abnormal external moisture, free of bruises and blemishes.

2. Variety/colour..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

4. The number of stalks shall not exceed the number of caps.

### 5. Criteria for Range designation:

S. No.	Tradable Parameters		Range-1	Range-2	Range-3
<b>A. Primary</b>					
(i)	Defects ( mushroom in cluster) for bloom- cap % by count (Max):- Bruising, rubbing and other superficial defects such as breakage and blemishes, (total surface area) The defects must not, in any case, affect the gill.		3 %	5 %	7 %
	Shape		5%	10%	15%
(ii)	Size (Diameter of the cap in cm)		5 & above	Upto 5	Below 3
(iii)	<b>Range Acceptance</b>		95 %	90 %	85 %
<b>B. Optional (Industrial/Processor)</b>					
(iv)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)		More than 90	Between 60-90	
(v)	Mineral impurities% (m/m)	Wild growing mushroom	0.1	0.3	
		Cultivated	0.25	0.5	
(vi)	Organic impurities of vegetable origin,% (m/m)	Wild growing mushroom	0.5	1	
		Cultivated	3(for uncut) 0.5 (for cut)	5 (for uncut) 1 (for cut)	8(for uncut) 1 (for cut)
(vii)	Content of maggot damaged mushroom,% (m/m)	Wild growing mushroom	2	4	6
		Cultivated	0.5	1	

### 6. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 10 nos shall be drawn from each selected packing unit and shall be mixed homogenously called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 169. Gherkin

Common name: घिकन

English name : Gherkin

Botanical name: *Cucumis sativus*, *C.angura*



### 1. Gherkin shall be.-

- (i) fresh in appearance, well formed, intact;
  - (ii) free from disease, soil, dust, wilting, burning, spots, holes and discoloration;
  - (iii) free of damage caused by high & low temperature, injury caused by scars, bruises ,badly curved/deformed, or shriveled;
  - (iv) uniform in size, shape, color and free from stem or flowers.
2. Variety/colour.....( to be filled by assayer).
  3. Actual Picture of the lot..... ( to be uploaded by assayer)
  4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Defects % by count (max.)	3%	5%	7%
(ii)	Shape and color (not less than of the total surface area)	well developed & green or dark green(not less than 3/4)	well developed & green with slight yellowing(not less than 3/4)	well developed & green with some yellowing( not less than 2/3)
(iii)	Length of the fruit (in cm)	Upto 3-5	Upto 5-7	
(iv)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Color(%)characteristic to the variety(1- 100)/visual	More than 70	Between 30-70	

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 100 gms shall be drawn from each selected packing unit and shall be mixed homogenously , called as primary sample
- (iii) 50 gms. shall be drawn from primary sample called as laboratory sample

**Optional parameters:** are voluntary and may be analyzed as per buyer-seller agreement.

Note: Gherkin is practically straight and not more than very slightly constricted or more than moderately tapered or pointed.

## 170. Grapefruit

Common name: चकोतरा English  
name : Grapefruit Botanical name:  
*Citrus × paradisi*



### 1. Grapefruit shall be-

- (i) whole, fresh, well formed, intact, firm;
- (ii) free from disease, pest, abnormal external moisture, foreign smell or taste;
- (iii) uniform in shape, size, color and undamaged skin(peel),dry skin, decay;
- (iv) free from dust or any visible foreign matter, black spot, scab, spray burns.

2. Variety/colour..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Defects %by count(max.) Discoloration (0.5-2 sq. cm of total surface area)	2%	5%	10%
(ii)	Shape(oblata) and color of fruit(orange-yellow or orange-red)	uniform color and shape normal to the variety	uniform color and shape normal to the variety	uniform color and shape normal to the variety
(iii)	Size of the fruit)(diameter of the equatorial section)	Upto1500 mm	Upto1000 mm	Upto 500 mm
(iv)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	Color(%)characteristic to the variety(1-100)visual	More than 85	More than 70	More than 60
(vi)	Juice content % min. Juice wt./fruit wt.	40%	38%	35%

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 5 nos shall be drawn from each selected packing unit and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as laboratory sample

6. **Special Note:** Fruits should not have coarse corrugated skin(peel),shriveled or immature, degreening is allowed provided that it does not affect the produce.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 171. Rapeseed

Common name: तोरीआ

English name : Taramira, Rapeseed

Botanical name: Brassica rapa, B.napus



### 1. Rapeseed shall be-

- (i) clean, wholesome reasonably uniform in size, shape and color, free from argemone seeds;
- (ii) free from obnoxious smell and fungus infestation.

### 2. Variety/colour.....(to be filled by assayer)

### 3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
(i)	Oil content(%by wt) Min.	40.0	35.0-40.0	Below 35.0
(ii)	Moisture (%by wt) Max.	8.0	9.0	10.0
(iii)	Foreign matter (%by wt) Max.	3.0	5.0	
(iv)	Damaged and discolored seeds(%by wt)Max.	3.0	5.0	
(v)	Other edible seeds (%by wt) Max.	0.5	0.8	1.0
(vi)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(vii)	Allyl iso thiocynate(m/m) On dry basis	Not less than 0.7 percent by weight		

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling
- (ii) 100 gm shall be drawn from each selected packing unit and shall be mixed homogenously , called as primary sample
- (iii) 50 gm shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 172. Hilsa

Common name: Hilsa,  
 िहता

Zoological name: *Hilsa shad, Tenualosa ilisha*



**1. Hilsa shall be-**

- (i) clean, wholesome finfish, intact, either in raw chilled or frozen condition;
  - (ii) free from disease, skin patches, stomach broken and obnoxious smell, or any other added chemical free from visible scar, parasite, grease, soil;
  - (iii) free from any scar/cuts, dip in formaline or any chemical, use of added coloring/chemicals.
2. Actual Picture of the lot ..... ( to be uploaded by assayer)
3. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i)	Size determined by (wt. per piece in gm)	More than 800 gm	300-800 gms.	300 gm below

**4. Quality Index Method(QIM):**

Quality parameter	Character	Score (ice/seawater)
General appearance	Skin	0 Bright, shining 1 Bright  2 Dull
	Bloodspot on gill cover	0 None 1 Small, 10-30% 2 Big, 30-50% 3 Very big, 50-100%
	Stiffness	0 Stiff, in <i>rigor mortis</i> 1 Elastic 2 Firm 3 Soft
	Belly	0 Firm 1 Soft 2 Belly burst
	Smell	0 Fresh, seaweed/metallic 1 Neutral 2 Musty/sour 3 Stale meat/rancid
	Eyes	Clarity
Shape		0 Normal 1 Plain 2 Sunken
Gills	Colour	0 Characteristic, red 1 Faded, discoloured

	Smell	0 Fresh, seaweed/metallic 1 Neutral 2 Sweaty/slightly rancid 3 Sour stink/stale, rancid
Sum of scores		(min. 0 and max. 20)

**Results of QIM:**

Sum of Scores QIM	Range
0-9	1
9-15	2
15-20	3

**5. Other requirements:**

- (i) Chilling can be achieved either by using ice, chilled water or refrigerated water which will not affect the quality of fish.
- (ii) Freezing or any cold chain management process shall be reinforced or any other traditional process by which the quality of the fish product have been maintained at low temperature during transportation, storage, distribution and including the time of final sale.

**6. Sampling: -**

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 Nos shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 173. MINT LEAVES

Common name: पुदीना पकी  
 English name: Mint leaves  
 Botanical name: *Mentha spicata L.*



**1. Mint Leaves shall be –**

- (i) fresh in appearance; clean, properly drained if washed;
  - (ii) free from visible foreign matter, abnormal external moisture, foreign smell/taste, damage caused by pests and produce affected by rotting or deterioration such as to make it unfit for consumption is excluded;
  - (iii) free from wilting or yellow leaves (dehydrated senescent).
2. Variety/colour..... (to be filled by assayer)  
 3. Actual Picture of the lot..... ( to be uploaded by assayer)  
 4. **Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Defects % by weight (Max):-			
	(i) Discolouration/ black leaves	3%	5%	7%
	(ii) Damaged leaves: cracks, bruises, holes or tears, split leaves	3%	5%	7%
(ii)	Range Acceptance	95 %	90 %	85 %
(iii)	Bunch stem length (in mm)	200	200-250	More than 250
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iv)	Pre-packed produce stem length (in mm)	75-100	100-150	more than 150
(v)	Color (%) (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

**5. Sampling: -**

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling.
- (ii) 100 g shall be drawn from each selected packing unit and shall be mixed homogenously called as primary sample.
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 174. CURRY LEAVES

Common name: करी पका

English name: Curry leaves

Botanical name: *Murraya Koenigii*(L.)



### 1. Curry Leaves shall be –

- (i) fresh in appearance; intact with stalk, sound, clean, properly drained if washed;
- (ii) free from visible foreign matter, abnormal external moisture, foreign smell/taste, damage caused by pests and produce affected by rotting or deterioration such as to make it unfit for consumption is excluded;
- (iii) free from sun-burn, bud formation.

2. Variety colour..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Defects % by weight (Max):-			
	(i) Discolouration/ black leaves	1%	5%	7%
	(ii) Damaged leaves: cracks, bruises, holes or tears, split leaves	Absent	5%	7%
(ii)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(iii)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 90	70-90	50-70

### 5. Sampling: -

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling.
- (ii) 100 g shall be drawn from each selected packing unit and shall be mixed homogenously called as primary sample.
- (iii) 200 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

Common name: हरी

प्राज

English name: Spring Onion, Welsh Onion

Botanical name: *Allium fistulosum***1. Spring Onion Leaves shall be –**

- (i) fresh in appearance; intact with bulb, mid to dark green leaves with bulb, clean, properly drained if washed;
- (ii) free from, foreign matter, abnormal external moisture, foreign smell/taste, damage caused by pests and produce affected by rotting or deterioration such as to make it unfit for consumption is excluded;
- (iii) free from yellow leaves, mildew, spray deposits, breakdown including rots and decaying leaves.

2. Variety/colour..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

**4. Criteria for Range designation:**

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Essential</b>			
(i)	Defects % by count (Max):- (i) Double split	2.0	5.0	Above 8.0
(ii)	Discolouration/ black leaves	3.0	5.0	7.0
(iii)	Damaged leaves: cracks, bruises, holes or tears, split leaves	3%	5%	7%
(ii)	Diameter of bulb (mm)	10-15	15-18	More than 18
(iii)	Stem length (mm)	250	300-350	More than 350
(iv)	Range Acceptance	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
(v)	<b>Color (%)</b> (Characteristic true to the variety) Scale (1 to 100*) /Visual (*100% is true to variety colour)	More than 70	Between 40-70	Less than 40

**5. Sampling: -**

- (i) 5 % or minimum one packing unit shall be randomly selected for sampling.
- (ii) 200 no. shall be drawn from each selected packing unit and shall be mixed homogeneously called as primary sample.
- (iii) 100 no. shall be drawn from primary sample called as Laboratory sample

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



**Common name:** ುଁଁଁଁ ುଁଁଁଁ, Seema Panasa (Telugu), Nirphanas (Marathi), Ipppla (Tamil), Jivikadgi (Konkani), and Jeegujje (Kannada)  
**English name:** Bread fruit

**Botanical name:** *Artocarpus altilis*



1. Breadfruit shall be:-

- (i). intact, wholesome, firm, clean, sound and of similar varietal characteristics;
- (ii). mature, have dark green to greenish yellow skin and firm flesh with uniform shape;
- (iii). free of any visible foreign matter, any foreign smell and/or taste;
- (iv). free of pests and damage caused by pests;
- (v). free of signs of internal shriveling

2. Variety (to be filled by assayer)

3. Actual picture of the lot(to be uploaded by assayer)

4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	Primary				
(i).	Size (weight in kgs)		More than 2.0	Between 1.0 to 2.0	Less than 1.0
(ii)	Defects (%)	Skin defects (% of total surface area) such as soft bruises, decay, worm holes, growth cracks, cuts or other skin breaks	Up to 3%	Up to 5%	Up to 7%
(iii)	<b>Range Acceptance</b>		95 %	90 %	85 %
B	Optional				
(i).	Colour (Characteristic true to variety) (% by count)		More than 70	between 40 to 70	Less than 40

5. Sampling

(i). 5% or minimum one container should be selected for sampling

(ii). 5 nos. shall be drawn from each selected container and mixed

homogenously, called as primary sample

(iii). 2 nos. shall be drawn from primary sample called as laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

## 177. AVOCADO

Common name: एवाकाडो/ मखनफल, Vennaipazham (Tamil), Vennapandu (Telugu),

Benne hannu (Kannada), Makhanphal (Hindi), Alpukat (Marathi)

English name: Alligator Pear (Torres, Fuerte, Pinkerton, Edranol, Reed, Antillean/West Indian/Guatemalan/Hass)

Botanical name: *Persea Americana Mill.*



1. Avocado shall be:-

- (i). whole, sound, clean greenish or yellowish flesh with a buttery consistency and a rich, nutty flavour;
- (ii). free of any visible foreign matter, free of any foreign smell and/or taste;
- (iii). free of pests and damage caused by them affecting the general appearance of the produce;
- (iv). free of abnormal external moisture, excluding condensation following removal from cold storage;
- (v). free of damage caused by low and/or high temperatures;

2. Variety (to be filled by assayer):

3. Actual picture of the lot (to be uploaded by assayer)

4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	Primary				
(i).	Defects (%)	(i). Defects in shape	Up to 2%	Up to 4%	Up to 6%
		(ii). Immature fruits	Up to 2%	Up to 4%	Up to 6%
		(iii). Skin defects (% of total surface area) such as soft bruises, decay, worm holes, growth cracks, cuts or other skin breaks	Up to 3%	Up to 5%	Up to 10%
(ii).	Range Acceptance		95%	90%	85%
B.	Optional				
(i).	Colour (Characteristic true to variety) (% by count)		More than 70	between 40 to 70	Less than 40
(ii).	Size by wt. (in grams)		Above 80		

5. Sampling

- (i). 5% or minimum one container should be selected for sampling
- (ii). 3 nos. shall be drawn from each selected container and mixed homogenously, called as primary sample
- (iii). 3 nos. shall be drawn from primary sample called as laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

Common name: रैबूटन/Rambutan,  
Ramboostan English name: Rambutan

Botanical name: *Nephelium lappaceum* L.



1. Rambutan shall be:-

- (i). clean, whole, sound, fresh in appearance;
- (ii). free of any visible foreign matter, any foreign smell and/or taste;
- (iii). practically free of pests and damage caused by them affecting the general appearance of the produce.

2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer)

4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).		No. of fruit/1 kg bunch	Less than 30	Between 30 to 40	More than 40
(ii).	Defects (%)	(i). Defects in shape	Up to 5%	Up to 7%	Up to 10%
		(ii). Immature fruits	Up to 5%	Up to 7%	Up to 10%
		(iii). Skin defects (% of total surface area) such as soft bruises, decay, worm holes, growth cracks, cuts or other skin breaks	Up to 5%	Up to 7%	Up to 10%
(iii).		Range Acceptance	95%	90%	85%
B	<b>Optional</b>				
(i).		Colour (Characteristic true to variety) (% by count)	More than 70	between 40 to 70	Less than 40

5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii). 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

Common name: Mangustan/मंगुस्टैन  
(Hindi), Kaattampi (Malayalam), Kokam  
(Marathi), Hannu (Kannada) and Kao  
(Bengali) English name: Mangosteen

Botanical name: *Garcinia mangostana* L.



1. Mangosteen shall be:-

- (i). whole, clean, reasonably mature, sound, fresh in appearance, having colour and taste characteristic to the variety;
- (ii). pedicel intact and with or without calyx;
- (iii). free of any visible foreign matter, damage caused by pests, any foreign smell and/or taste.

2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer)

4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i). Defects in shape	Up to 2%	Up to 4%	Up to 6%
		(ii). Skin defects (% of total surface area) such as bruising, scratches or other mechanical damage.	Up to 10%	Up to 20%	Up to 30%
(ii).	Yellowish latex stains on fruit surface		Up to 5%	Up to 10%	Up to 20%
(iii).	Range Acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Weight per fruit (grams)		More than 125	Between 125 to 76	Below 76
(ii).	Colour (Characteristic true to variety) (% by count)		More than 70	between 40 to 70	Less than 40

5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 5 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii). 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

## 180.WINGED BEAN

Common name: गोआ बी:स/Cigarillos, four-angled bean, four-cornered bean, manila bean, princess bean, asparagus bean, dragon bean

English name: Winged bean

Botanical name: *Psophocarpus tetragonolobus* L.



1. Winged bean shall be:-
  - (i). whole, clean, sound, fresh, tender;
  - (ii). free of pests affecting the general appearance of the produce;
  - (iii). free of any foreign smell and/or taste;
  - (iv). reasonably uniform in size and shape
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i). Discolouration	Up to 3%	Up to 5%	Up to 7%
		(ii). Skin defects (% of total surface area such as bruises and sunburn.	Up to 5%	Up to 10%	Up to 15%
(ii).	Length (in cm)		Up to 10	Up to 15	Up to 20
(iii).	Range Acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Colour (Characteristic true to variety) (% by count)		More than 70	between 40 to 70	Less than 40

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii). 250 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

## 181. LESSER YAM

Common name: Lesser yam/लेसर रताल, Asiatic yam, Lesser Asiatic yam  
English name: Lesser yam

Botanical name: *Dioscorea esculenta*

1. Lesser yam shall be:-

- (i). whole, sound, fresh, tender, clean, having color characteristic to the variety;
- (ii). free of pests affecting the general appearance of the produce;
- (iii). free of any foreign smell and/or taste

2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer)

4. Criteria for range designation



S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i). Greenish colored yam	Up to 3%	Up to 5%	Up to 7%
		(ii). Skin defects (% of total surface area) such as bruises	Up to 5%	Up to 10%	Up to 15%
(ii).	Range Acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Colour (Characteristic true to variety) (% by count)		More than 70	between 40 to 70	Less than 40

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii). 250 gm shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

Common name: Bilimbi/बिलिंबी (Hindi), Vilumpi (Malayalam), Gommareku (Telugu), Pulinchikka

English name: Bilimbi, cucumber tree or tree sorrel, bumbling plum, pickle fruit

Botanical name: *Averrhoa bilimbi* L.



1. Bilimbi shall be:-
  - (i). whole, sound, fresh, tender, clean, color characteristic to the variety;
  - (ii). reasonably uniform in size and shape;
  - (iii). free of pests affecting the general appearance of the produce;
  - (iv). free of any foreign smell and/or taste.
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i). Discolouration	Up to 3%	Up to 5%	Up to 7%
		(ii). Skin defects (% of total surface area) such as bruises and sunburn.	Up to 5%	Up to 10%	Up to 15%
(ii).	Range Acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Colour (Characteristic true to variety) (% by count)		Above 70	between 60 to 70	Less than 60

#### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 g shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- (iii). 250 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

Common name: रामफल/Guayabano, guanabano, graviola, guyabano, babana, Ramphal

English name: Soursop

Botanical name: *Annona muricata* L.



1. Soursop shall be:-
  - (i). whole, fresh, sound, reasonably mature, having color characteristic to the variety;
  - (ii). free of any visible foreign matter, foreign smell and/or taste;
  - (iii). free of damage caused by pests
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i). Defects in shape	Up to 5%	Up to 10%	Up to 15%
		(ii). skin defects (% of total surface area) such as scratches, shallow scars and sunburn	Up to 3%	Up to 5%	Up to 10%
(ii).	Range Acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Size (weight per fruit) (in grams)		Above 700	Up to 700	Less than 400
(ii).	Colour (Characteristic true to variety) (% by count)		Above 70	between 60 to 70	Less than 60

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 2 Nos shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii). 2 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**



## 184. ARROWROOT

Common name: अरारोट/arrowroot, maranta, West Indian arrowroot, obedience plant, Bermuda arrowroot, araru, araruta, kooya

English name: Arrowroot

Botanical name: *Maranta arundinacea*



1. Arrowroot shall be:-

- (i). fresh, whole, clean, firm, reasonably mature having colour, taste and texture characteristic of the variety;
- (ii). reasonably uniform in size and shape
- (iii). free from roots, mould or deterioration so as to make it unfit for processing;
- (iv). free of any visible extraneous matter or foreign matter;
- (v). free of any foreign smell and/or taste, greening, pests and damage caused by pests.

2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer).

4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	Primary				
(i).	Defects (%)	(i) Defects in shape	Up to 3%	Up to 5%	Up to 10%
		(ii) Bruising (% of total surface area)	Up to 5%	Up to 10%	Up to 20%
		(iii) Scraped areas (% of total surface area)	Up to 10%	Up to 20%	Up to 30%
(ii).	Range Acceptance		95%	90%	85%

5. Sampling

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample

Common name: Haldi/हःदःी, curcuma, Haridra, turmeric root  
English name: Turmeric

Botanical name: *Curcuma longa* L, *Curcuma domestica* V.



1. Turmeric rhizome shall be
  - (i). wholesome, clean, sound,
  - (ii). free from living insects and moulds,
  - (iii). smooth skin, uniform skin and flesh colors, and a clean snap when broken.
  - (iv). having characteristic odour and flavor and colour characteristic to the variety
  - (v). free from dead insects, insect fragments and contamination by rodents,
  - (vi). free from obnoxious smell and fungus infestation.
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i).	Extraneous foreign matter (% by wt)	Up to 1%	Up to 1.5%	Up to 2%
(ii).	Defective Rhizomes (% by wt)	Up to 5%	Up to 7%	Up to 10%
(iii).	Insect defiled/infested rhizomes (% by wt)	Up to 2%	Up to 5%	Up to 10%
(iv).	Range acceptance	95%	90%	85%
B	<b>Optional</b>			
(i).	Broken pieces, fingers < 15 mm (% by wt)	Up to 5%	Up to 7%	Up to 10%

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 g shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- (iii). 250 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

Common name: गोल  
मिर्चा

English name: Round chilli (Ramnad Mundu)

Botanical name: *Capsicum annum variety Ramnad Mundu*



1. Chillies shall be
  - (i). characteristic pungent taste, having color characteristic to the variety;
  - (ii). free from foreign taste and flavour including rancidity and mustiness;
  - (iii). free from mould growth, living /dead insects, insect fragments and rodent contamination;
  - (iv). free from extraneous colouring matter, coating of mineral oil and other harmful substances.
2. Variety(to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3	
A.	<b>Primary</b>				
(i).	Defects (%)	(i) Bruising (5-10mm on surface)	Up to 3%	Up to 5%	Up to 7%
		(ii) Discolour (5-10 mm on surface, Including sun spots)	Up to 3%	Up to 5%	Up to 7%
(ii).	Range Acceptance	95%	90%	85%	
B	<b>Optional</b>				
(i).	Colour (Characteristic true to variety) (% by count)	More than 70	between 40 to 70	Less than 40	

5. **Sampling:** -

- (i) 5% or minimum one container shall be randomly selected for sampling
- (ii) 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 250 g shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

Common name: मालाबार इमली/ Garcinia cambogia, Garcinia, brindle berry, kudampuli, gambooge

English name: Malabar tamarind, brindle berry

Botanical name: *Garcinia gummi-gutta*



1. Garcinia cambogia shall be:-
  - (i). whole, sound, clean,
  - (ii). free of any visible foreign matter, foul smell and abnormal taste;
  - (iii). Reasonably uniform in size and shape;
  - (iv). free of damage caused by pests and pronounced blemishes;
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i). Defects in shape	Up to 5%	Up to 10%	Up to 15%
		(ii). Skin defects (% of total surface area) such as bruising, scratches or other mechanical damage	Up to 5%	Up to 10%	Up to 15%
(ii)	Range Acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Colour (Characteristic true to variety) (% by count)		Above 70	Between 60 to 70	Less than 60

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 gm shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii). 250 gm shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

Common name: Raw Coffee beans/रॉ कॉफ़ बी:स

English name: Raw Coffee beans

Botanical name: *Coffea arabica*, *Coffea caenophora*  
(subvariety *C. robusta*)



1. Coffee beans shall be:-
  - (i). clean, wholesome, reasonably uniform in size, shape and colour characteristic to the variety
  - (ii). free from any foreign odour and fungus infestation
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
(i).	Moisture (%)	Up to 20.0	Up to 21.0	Up to 22.0
(ii).	Insect damaged (%)	Up to 1.0	Up to 2.0	Up to 3.0
(iii).	Extraneous matter (%)	Up to 1.0	Up to 1.5	Up to 2.0
(iv).	Immature and shrivelled (%)	Up to 2.0	Up to 4.0	Up to 6.0
(v).	Broken beans (%)	Up to 3.0	Up to 5.0	Up to 10.0
B.	<b>Optional</b>			
(i).	Sieve test (% of mass retained on 6 mm sieve)	More than 90	More than 80	80 & Below

#### 5. Sampling

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container shall be mixed homogenously called as primary sample.
- (iii) 250 gm shall be drawn from primary sample will be called as Laboratory sample.

Common name: Rambai, rambi, mootty, lotkon fruit (Bengali)

English name: Mootty Fruit/ Rambai

Botanical name: *Baccaurea motleyana*



1. Mootty fruit shall be:-

- (i) clean, intact, firm, of reasonably uniform size & shape, color characteristic to the variety
- (ii) free from visible foreign matter, foreign smell, mould infestation

2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer)

4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	Primary				
(i).	Defects (%)	(i). Skin defects (% of total surface area) such as bruising, sunspots etc.	Up to 5%	Up to 10%	Up to 15%
(ii)	Range acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Colour (Characteristic true to variety) (% by count)		More than 70	Between 60 to 70	Less than 60
(ii)	Size	Width (cm)	More than 2.0	Between 1.5 to 2.0	Less than 1.5
		Length (cm)	More than 2.5	Between 2.0 to 2.5	Less than 2.0

### 5. Sampling

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 250 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

## 190. GREEN AMARANTHUS

Common name: Green amaranthus, slender amaranth, pigweed, जंगली/हरी चोलाई, keresoppu, kuppacheera,

English name: Green amaranthus

Botanical name:- *Amaranthus viridis*



1. Green Amaranthus shall be:-

- (i) clean, sound and fresh, with or without root;
  - (ii) reasonably free from foreign matter like sand and grit;
  - (iii) have a reasonably uniform colour characteristic of the variety;
  - (iv) free from any visible pests, coarse stalks, red and decayed leaves;
  - (v) be free from foreign flavour and odour,
  - (vi) reasonably free from discoloured leaves or portions thereof, flower stems (seed heads) and flower buds;
2. Variety (to be filled by assayer)
  3. Actual picture of the lot (to be uploaded by assayer)
  4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i) Slightly damaged leaves such as cracks, bruises, holes and tears	Up to 3%	Up to 5%	Up to 10%
		(ii) Extraneous vegetable matter	Up to 3%	Up to 5%	Up to 10%
(ii).	Range acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Colour characteristic true to variety (% by count)		Above 70	Between 60 to 70	Less than 60

**5. Sampling**

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 g shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii). 250 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

## 191. RED AMARANTHUS

Common name: Red amaranth, blood amaranth, purple amaranth, grain amaranth,  
लाल साग/चौलाई

English name: Red amaranth

Botanical name:- *Amaranthus cruentus*



1. Red Amaranthus shall be:-
  - (i). clean, sound and fresh, with or without root;
  - (ii). reasonably free from foreign matter like sand and grit;
  - (iii). have a reasonably uniform colour characteristic of the variety;
  - (iv). free from any visible pests, coarse stalks, green and decayed leaves;
  - (v). be free from foreign flavour and odour,
  - (vi). reasonably free from discoloured leaves or portions thereof, flower stems (seed heads) and flower buds;
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (%)	(i) Slightly damaged leaves such as cracks, bruises, holes and tears	Up to 3%	Up to 5%	Up to 10%
		(ii) Extraneous vegetable matter	Up to 3%	Up to 5%	Up to 10%
(ii).	Range acceptance		95%	90%	85%
B.	<b>Optional</b>				
(i).	Colour characteristic true to variety (% by count)		Above 70	between 60 to 70	Less than 60

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 g shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- (iii). 250 g shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**



Common name: कटहल के बीज

English name: Jackfruit seed

Botanical name: *Artocarpus heterophyllus*



1. Jackfruit seeds shall be:-
  - (i) intact, sound, clean, well-formed and obtained from mature jackfruit;
  - (ii) free from any visible pests and mold,
  - (iii) free of foreign smell and/or taste and rancidity.
  - (iv) free from blemishes, discoloration, rotting or deterioration
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	<b>Primary</b>				
(i).	Defects (% by weight)	(i) Damaged/Discolored	Up to 3%	Up to 5%	Up to 10%
		(ii) Shrunken or shrivelled and wrinkled seeds	Up to 3%	Up to 5%	Up to 10%
		(iii) Broken	Up to 3%	Up to 5%	Up to 7%
		(iv) Sprouted seed	Up to 3%	Up to 5%	Up to 10%
(ii).	Range acceptance		95%	90%	85%
B	<b>Optional</b>				
(i).	Width (cm)		More than 2	Between 1.5 to 2	Less than 1.5
(ii).	Length (cm)		More than 3.5	Between 2.5 to 3.5	Less than 2.5

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 gm shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii). 250 gm shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement**

## 193.GINGER SEED

Common name: अदरक बीज

English name: Ginger

Botanical name: *Zingiber officinale* Rosc.



1. Ginger seed shall be:-
  - (i). true to type and free from seed-borne pathogens and pests, rhizome rot and other seed-borne diseases.
  - (ii). reasonably clean healthy and firm.
  - (iii). practically free of any visible foreign matter, any foreign smell and/or taste.
  - (iv). free of deterioration and rotting
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters		Range-1	Range-2	Range-3
A.	Primary				
(i).	Size (in cm)	Length	More than 10.0	Between 5.0 to 10.0	Less than 5.0
		Width	More than 3.0	Between 2.0 to 3.0	Less than 2.0
(ii).	Defects (%) max	(i). Skin defect (% of total surface area) such as bruising, scratches and cuts	Up to 3%	Up to 5%	Up to 7%
		(ii). Soft/Dry root	Up to 1%	Up to 2%	Up to 5%
		(iii). Rhizome Scales	Up to 1%	Up to 2%	Up to 5%
(iii).	Range acceptance		95%	90%	85%

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 250 gm shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii). 250 gm shall be drawn from primary sample called as Laboratory sample.

## 194. Silk Cocoons

**Common Name:** Silk Cocoons

**Botanical Name:** Cocoons of *Bombyx mori*



### 1. Silk cocoon shall be :

- (i). compact, slightly resilient, firm;
  - (ii). clean and free from foreign matter and moisture
  - (iii). oval to round in shape;
  - (iv). free from mould growth;
  - (v). uniformly wrinkled;
2. Variety: (Multivoltine/Bivoltine)
  3. Actual picture of the lot (to be uploaded by assayer)
  4. **Criteria for range designation**

Sl. No.	Tradable parameter		Range – 1	Range – 2	Range - 3
<b>A</b>	<b>Primary</b>				
1.	Colour	Multivoltine cross breed	Bright yellow	Light yellow	Pale yellow
		Bivoltine Cross breed	Pure White	Normal white	Dull white
2.	Shell ratio (silk %)		Between 22.00 to 24.00	Above 20.00 to 22.00	Above 18.00 to 20.00
3.	Estimated Renditta ( Kg)		Between 5.5 to 6.00	Above 6.0 to 6.5	Above 6.5 to 7.00
4.	Defects (malforms, double cocoons, stained, filmy, very small cocoons) %		Upto 5	Upto 8	More than 8
5.	Range Acceptance %		More than 90	80 to 90	Less than 80
<b>B.</b>	<b>Optional (Industrial/processor)</b>				
1.	Size (Number of Cocoons per Kg)		Between 475 to 525	Above 525 to 575	More than 575
2.	Cocoon weight (in grams)		More than 2.0	Between 1.5 to 2.0	Less than 1.5

### 5. Sampling

- (i) 1 kg random sample from whole lot should be collected known as primary sample. From primary samples defective cocoon percentage should be calculated.
- (ii) 25 cocoons shall be drawn from primary sample called as laboratory sample for other tests.

## 195. Banana Stem

Common name: Banana Stem / □□□□ □□ □□□

Botanical name: Stem of *Musa spp*



1. Banana stem shall be –
  - (i). intact, fresh, firm, clean;
  - (ii). shining white to light yellow in color and characteristic to the variety;
  - (iii). free from insect infestation, cuts, mechanical injury;
2. Variety... (to be filled by assayer)
3. Actual Picture of the lot... (to be uploaded by assayer)
4. Criteria for Range designation

Sl. No.	Tradable parameter	Range – 1	Range – 2	Range - 3
1.	Length (in ft.)	Between 6 to 7	Above 5 to 6	Less than 5
2.	Thickness of sheath (in inch)	Between 3 to 5	Less than 3 and more than 5	
3.	Defects (in %) <ol style="list-style-type: none"> <li>i). Bruising</li> </ol>	Less than 2	Between 2 to 5	More than 5

### 5. Sampling:

5% or 5 No (whichever is less) of the Lot shall be randomly selected and that will be called as Laboratory Sample.

## 196. GREEN HENNA LEAF

Common name: Green Henna Leaf/मममममम मम ममम ममममम

Botanical name: *Lawsonia inermis*



1. Green Henna Leaf shall be –
  - (i). clean, wholesome, reasonably uniform in size, shape and color characteristic to the variety;
  - (ii). light green to greenish brown in color;
  - (iii). free from any foreign matter, odour, and fungus infestation, cuts, mechanical injury.
2. Variety... (to be filled by assayer)
3. Actual Picture of the lot..... (to be uploaded by assayer)
4. Criteria for Range designation

Sl. No.	Tradable parameter	Range – 1	Range – 2	Range - 3
1.	Moisture (%) (Max.)	3	7	10
2.	Insect damaged (%) (Max.)	Absent	5	7
3.	Foreign matter (%) (Max.)	4	7	10
4.	Immature and shriveled (%) (Max.)	3	5	7
5.	Defects (%) (Max.) Discoloration	3	5	7
6.	Range Acceptance (%)	95	90	85

### 5. Sampling:

- (i). 5% or minimum one container shall be randomly selected for sampling.(ii).  
200 g shall be drawn from each selected container shall be mixed  
homogenously called as primary sample.
- (iii). 200 g shall be drawn from primary sample will be called as laboratory sample.

## 197. RAW ARROWROOT POWDER

Common name: Raw Arrowroot starch

Botanical name: starch obtained from *Maranta arundinacea*,  
*Curcuma augustifolia*



1. Arrowroot powder means the separated and purified starch obtained from the rhizomes of the plants known as *Maranta arundinacea* and *Curcuma augustifolia*.
  - (i). The material shall be in the form of a fine powder and shall be white or off white in colour.
  - (ii). It shall be free from rancidity, adulterants, insect infestation, and from fermented, musty or any other objectionable odour.
  - (iii). It shall not contain added sweetening, flavouring or colouring agents or any foreign matter.
  - (iv). The material shall be free from dirt and other suspended and extraneous matter.
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
1.	Moisture (%) max	14.0	15.0	
2.	Foreign matter (%) max	0.5	1.0	
3.	Total ash (on dry basis %) %) max	0.60	0.70	0.80
4.	Starch (on dry basis %) min	98.0	96.0	94.0
5.	Acid insoluble ash (on dry basis %) max	0.30	0.40	0.50
6.	pH of aqueous extract	4.5 to 7.0		
7.	Sieve analysis (% passing through 75 µm IS Sieve)	98.0	97.0	96.0

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling. (ii). 200 g shall be drawn from each selected container and shall be mixed homogeneously called as primary sample.
- (iii). 200 g shall be drawn from primary sample called as Laboratory sample.

## 198. RAW HONEY

Common name: Raw Honey/ मम ममम



### 1. Honey shall be:-

- (i). having sweet flavour, pleasant odour, taste and aroma characteristic to the variety
- (ii). uniform colour throughout and may vary from light to dark brown
- (iii). free from visible foreign matter
- (iv). free from any added food additives such as colour and artificial sweetener;
- (v). free from suspended particles.

### 2. Variety (to be filled by assayer)

### 3. Actual picture of the lot (to be uploaded by assayer)

### 4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
1.	Moisture (%) max	22.0	24.0	25.0
2.	Total soluble solids (%) min	70.0	68.0	65.0
B	<b>Optional (Industrial/processor)</b>			
1.	Total reducing sugars (%) min	70.0	68.0	65.0
2.	Sucrose (%) max	5.0		
3.	Specific gravity at 27°C min	1.40	1.37	1.35

### 5. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 200 gm shall be drawn from each selected container and shall be mixed

homogenously called as primary sample.

- (iii). 200 gm shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 199. BAJI BANANA

Common name: Baji banana, Monthan

Botanical name: *Musa sp.*

1. Baji banana shall be:-

- (i). firm, whole, sound, clean, of reasonably uniform size and color;
- (ii). practically free of pests and damage caused by pests;
- (iii). free of any foreign smell and/or taste;
- (iv). practically free of bruises;
- (v). free from malformation or abnormal curvature of the fingers;
- (vi). with the stalk intact, without bending, fungal damage or desiccation.



2. Variety:

3. Actual picture of the lot (to be uploaded by assayer).

4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
1.	Weight of Bunch (kg)	More than 15	Between 11 to 15	Less than 11
2.	Weight of Banana finger (grams)	More than 180	Between 160 to 180	Less than 160
3.	No. of Hands in the Bunch	More than 10	Between 9 to 10	Less than 9
4.	Length of Banana Finger (cm.)	More than 15	Between 10 to 15	Less than 10
5.	Diameter of banana finger (cm)	More than 5	Between 3 to 5	Less than 3
6.	Defects (knife wounds, cracks, bruising, black spot etc.) % of total surface area	Less than 5	Between 5 to 10	More than 10
B	<b>Optional (Industrial/processor)</b>			
1.	Colour (Characteristic true to variety) Scale (1 to 100) Visual 100% is true to variety colour	More than 70	40-70	Less than 40

### 6. Sampling

- (i). 5 % or minimum one container shall be randomly selected for sampling.
- (ii). 5 Lungars shall be drawn from each selected container and shall be mixed homogeneously, called as primary sample
- (iii). 03 bunches shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**



## 200. MYSORE BANANA

Common name: Mysore Banana (Poovan), Berry banana ममममम मममम

Botanical name: Musa sp.



1. Mysore banana shall be:-

- (i). firm, whole, sound, clean, of reasonably uniform size and color
- (ii). practically free of pests and damage caused by pests;
- (iii). free of any foreign smell and/or taste;
- (iv). practically free of bruises;
- (v). free from malformation or abnormal curvature of the fingers;
- (vi). with the stalk intact, without bending, fungal damage or desiccation.

2. Variety:

3. Actual picture of the lot (to be uploaded by assayer).

4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
1.	Weight of Bunch (Kg.)	More than 12	Between 8 to 12	Less than 8
2.	No. of Hands in the Bunch	More than 10	Between 7 to 10	Less than 7
3.	Length of banana finger (cm.)	More than 11	Between 8 to 11	Less than 8
4.	Defects ( Bruised /Chitti/ Black spot) % of total surface area	Less than 2	Less than 5	Less than 10
B	<b>Optional (Industrial/processor)</b>			
1.	Colour(Characteristic true to variety)Scale (1 to 100) Visual 100% is true to variety colour	More than 70	Between 40 to 70	Less than 40

### 5. Sampling

- i. 5 % or minimum one container shall be randomly selected for sampling.
- ii. 5 Lungars shall be drawn from each selected container and shall be mixed homogenously , called as primary sample
- iii. 03 bunches shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 201. RED BANANA

Common name: Kappa Pazham, Chengadali, Chovvazhapazham (Malayalam), Red dacca, ममम मममम Botanical name: Musa acuminata



### 1. Red banana shall be:-

- (i). firm, whole, sound, clean, of reasonably uniform size and color;
- (ii). have a deep red or maroon rind when ripe;
- (iii). practically free of pests and damage caused by pests;
- (iv). free of any foreign smell and/or taste;
- (v). practically free of bruises;
- (vi). free from malformation or abnormal curvature of the fingers;
- (vii). with the stalk intact, without bending, fungal damage or desiccation.

### 2. Variety:

3. Actual picture of the lot (to be uploaded by assayer).

### 4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
1.	Weight of Bunch (kg)	More than 10	Between 9 to 10	Less than 8
2.	No. of Hands in the Bunch	More than 12	Between 10 to 12	Less than 10
3.	Length of Fruit (cm.)	More than 17	Between 14 to 17	Less than 14
4.	Diameter of banana finger (cm)	More than 4.4	Between 3 to 4.4	Less than 3
5.	Defects (knife wounds, cracks, bruising, black spot etc.,) (% of total surface area)	Less than 5	Between 5 to 10	More than 10
B	<b>Optional (Industrial/processor)</b>			
1.	Colour(Characteristic true to variety)Scale (1 to 100) Visual 100% is true to variety colour	More than 70	Between 40 to 70	Less than 40

### 5. Sampling

- i. 5 % or minimum one container shall be randomly selected for sampling.
  - ii. 5 Lungars shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
  - iii. 03 bunches shall be drawn from primary sample called as Laboratory sample.
- Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 202.LADY FINGER BANANA

Common name: Yelakki banana, Elaichi banana, Lady finger banana, Sugar banana, Fig banana, Date banana, Baby banana, Ney Poovan

Botanical name: Musa acuminata



1. Lady finger banana shall be:-
  - i. firm, whole, sound, clean, of reasonably uniform size and color;
  - ii. practically free of pests and damage caused by pests;
  - iii. free of any foreign smell and/or taste;
  - iv. practically free of bruises;
  - v. free from malformation or abnormal curvature of the fingers;
  - vi. with the stalk intact, without bending, fungal damage or desiccation.
2. Variety (to be filled by assayer):
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary</b>			
1.	Weight of Bunch (kg)	More than 12	Between 10 to 12	Less than 10
2.	No. of Hands in the Bunch	More than 10	Between 9 to 10	Less than 9
3.	Length of Fruit (cm.)	More than 10	Between 8 to 10	Less than 8
4.	Diameter of banana finger (cm)	More than 4	Between 3 to 4	Less than 3
5.	Defects (knife wounds, cracks, bruising, black spot etc.,) (% of total surface area)	Less than 5	Between 5 to 10	More than 10
B	<b>Optional (Industrial/processor)</b>			
1.	Colour(Characteristic true to variety)Scale (1 to 100) Visual 100% is true to variety colour	More than 70	Between 40 to 70	Less than 40

### 5. Sampling

- i. 5 % or minimum one container shall be randomly selected for sampling.
- ii. 5 Lungars shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- iii. 03 bunches shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 203. FOXTAIL MILLET

Common name: Foxtail millet, Italian millet, German millet,  
ममममम/ ममममम  
Botanical name: Setaria italica



1. Foxtail millet shall be:-
  - (i). clean, wholesome, reasonably uniform in size having color characteristic to the variety;
  - (ii). free from obnoxious smell and fungal infestation;
  - (iii). free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	11.0	12.0	13.0
2.	Immature and shrivelled grains (% by wt.) max	2.0	4.0	6.0
3.	Foreign matter (% by wt.) max	0.2	0.5	1.0
4.	Other edible grains (% by wt.) max	2.0	4.0	6.0
5.	Damaged grains (% by wt.) max	3.0	5.0	7.0
6.	Weevilled grains (% by count) max	2.0	3.0	5.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max	100		
2.	Aflatoxin (microgram/kg) max	30		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 204. LITTLE MILLET

Common name: Kutki (Hindi), Sama (Bengali), Sava (Marathi), Same, Save (Kannada), Samai (Tamil), Samalu (Telugu)

Botanical name: *Panicum sumatrense*



1. Little millet shall be:-
  - (i). clean, wholesome, reasonably uniform in size and shape and having color characteristic to the variety;
  - (ii). free from obnoxious smell and fungal infestation;
  - (iii). free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	12.0	13.0	14.0
2.	Admixture (% by wt.) max	1.0	2.0	3.0
3.	Other edible grains (% by wt.) max	1.0	1.5	2.0
4.	Immature and shrivelled grains (% by wt.) max	3.0	4.0	5.0
5.	Foreign matter (% by wt.) max	0.2	0.5	1.0
6.	Damaged grains (% by wt.) max	3.0	5.0	7.0
7.	Weevilled grains (% by count) max	2.0	3.0	4.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max	100		
2.	Aflatoxin (microgram/kg) max	30		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (iv). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (v). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (vi). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 205. KODO MILLET

Common name: Kodo (Hindi, Bengali), Kodra (Gujarati, Marathi), Harka (Kannada), Varagu (Tamil), Arikelu, Arika (Telugu)

Botanical name: *Paspalum scrobiculatum*



1. Kodo millet shall be:-
  - (i) clean, wholesome, reasonably uniform in size and shape and having color characteristic to the variety;
  - (ii) free from obnoxious smell and fungal infestation;
  - (iii) free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	12.0	13.0	14.0
2.	Admixture (% by wt.) max	1.0	2.0	3.0
3.	Other edible grains (% by wt.) max	1.0	1.5	2.0
4.	Immature and shrivelled grains (% by wt.) max	3.0	4.0	5.0
5.	Foreign matter (% by wt.) max	0.2	0.5	1.0
6.	Damaged grains (% by wt.) max	3.0	5.0	7.0
7.	Weevilled grains (% by count) max	2.0	3.0	4.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max		100	
2.	Aflatoxin (microgram/kg) max		30	

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (iv). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (v). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (vi). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 206. BARNYARD MILLET

Common name: Sanva, Samwa (Hindi), Shyama (Bengali), Bhagar (Marathi), Oodalu (Kannada), Kuthiravalli (Tamil), Udalu, Kodisama (Telugu)

Botanical name: *Echinochloa frumentacea*, *Echinochloa crus-galli*,  
*Echinochloa colona*



1. Barnyard millet shall be:-
  - (i). clean, wholesome, reasonably uniform in size and shape and having color characteristic to the variety;
  - (ii). free from obnoxious smell and fungal infestation;
  - (iii). free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	12.0	13.0	14.0
2.	Admixture (% by wt.) max	1.0	2.0	3.0
3.	Other edible grains (% by wt.) max	1.0	1.5	2.0
4.	Immature and shrivelled grains (% by wt.) max	3.0	4.0	5.0
5.	Foreign matter (% by wt.) max	0.2	0.5	1.0
6.	Damaged grains (% by wt.) max	3.0	5.0	7.0
7.	Weevilled grains (% by count) max	2.0	3.0	4.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max	100		
2.	Aflatoxin (microgram/kg) max	30		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (iv). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (v). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (vi). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 207. BROWNTOP MILLET

Common name: Chhoti kangni, Murat (Hindi), Hari Kangni (Punjabi), Korale (Kannada), Palapul (Tamil), Andukorralu (Telugu)

Botanical name: *Uruchloa ramosa*



1. Browntop millet shall be:-
  - (i) clean, wholesome, reasonably uniform in size and shape and having color characteristic to the variety;
  - (ii) free from obnoxious smell and fungal infestation;
  - (iii) free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	12.0	13.0	14.0
2.	Admixture (% by wt.) max	1.0	2.0	3.0
3.	Other edible grains (% by wt.) max	1.0	1.5	2.0
4.	Immature and shrivelled grains (% by wt.) max	3.0	4.0	5.0
5.	Foreign matter (% by wt.) max	0.2	0.5	1.0
6.	Damaged grains (% by wt.) max	3.0	5.0	7.0
7.	Weevilled grains (% by count) max	2.0	3.0	4.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max	100		
2.	Aflatoxin (microgram/kg) max	30		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (iv). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (v). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (vi). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**



## 208. PROSO MILLET

Common name: Chena, Barri (Hindi), Cheena (Bengali), Vari (Marathi), Baragu (Kannada), Panivaragu (Tamil), Variga (Telugu)

Botanical name: *Panicum miliaceum*



1. Proso millet shall be:-
  - (i). clean, wholesome, reasonably uniform in size and shape and having color characteristic to the variety;
  - (ii). free from obnoxious smell and fungal infestation;
  - (iii). free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	12.0	13.0	14.0
2.	Admixture (% by wt.) max	1.0	2.0	3.0
3.	Other edible grains (% by wt.) max	1.0	1.5	2.0
4.	Immature and shrivelled grains (% by wt.) max	3.0	4.0	5.0
5.	Foreign matter (% by wt.) max	0.2	0.5	1.0
6.	Damaged grains (% by wt.) max	3.0	5.0	7.0
7.	Weevilled grains (% by count) max	2.0	3.0	4.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max	100		
2.	Aflatoxin (microgram/kg) max	30		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (iv). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (v). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (vi). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 209. AMARANTH SEED

Common name: Ramdana, Rajgira (Hindi), Amaratha bija (Bengali), Chaulai beej (Punjabi), Danthu beeja (Kannada), Keerai vidai (Tamil), Thotakooru ginjalu (Telugu)  
 Botanical name: *Amaranthus caudatus*, *Amaranthus cruentus*, and *Amaranthus hypochondriacus*



1. Amaranth seed shall be:-
  - (i). clean, wholesome, reasonably uniform in size and shape and having color characteristic to the variety;
  - (ii). free from obnoxious smell and fungal infestation;
  - (iii). free from rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	12.0	13.0	14.0
2.	Admixture (% by wt.) max	1.0	2.0	3.0
3.	Other edible grains (% by wt.) max	1.0	1.5	2.0
4.	Immature and shrivelled grains (% by wt.) max	3.0	4.0	5.0
5.	Foreign matter (% by wt.) max	0.2	0.5	1.0
6.	Damaged grains (% by wt.) max	3.0	5.0	7.0
7.	Weevilled grains (% by count) max	2.0	3.0	4.0
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Uric acid (mg/kg) max	100		
2.	Aflatoxin (microgram/kg) max	30		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Admixture means the presence of a variety of the same grain other than the variety in consideration.
- (ii). Other Edible Grains means any edible grains other than the one which is under consideration;
- (iii). Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (iv). Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (v). Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (vi). Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 210. ALMOND KERNEL

Common name: Almond kernel, Badam giri

English name: Almond kernel

Botanical name: *Prunus amygdalus Batsch. syn. and Prunus dulcis (Mill.)D.A. Webb*



1. Almond (kernel) shall be:-
  - (i). sound, whole, sufficiently dried and properly cleaned;
  - (ii). having uniform colour and achieved appropriate stage of maturity;
  - (iii). having pleasant taste and flavour characteristic to the variety;
  - (iv). free from visible mould growth, rodent contamination;
  - (v). free from foreign matter, particles, dust, soil, extraneous vegetable matter, living and dead insects, insect fragments, insect eggs, mites, rodent contamination;
  - (vi). free from any added coloring matter;
  - (vii). free from off-odor, evidences of fermentation, mustiness and rancidity;
2. Variety (to be filled by assayer)
3. Actual picture of the lot(to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary Parameters</b> (% by wt) Max			
1.	Moisture	5.0	5.5	6.0
2.	In shell almonds, shell or skin fragments	0.10	0.20	0.25
3.	Rancid, rotten and damaged by insects or other pests	0.25	0.5	1.0
4.	Gummy and brown spot	1.0	1.5	2.0
5.	Blemished & Discolored Kernels	2.0	3.0	4.0
6.	Shrunken or shriveled, Dissimilar kernels	3.0	6.0	10.0
7.	Spilt, Broken & halves Kernels	2.0	3.0	5.0
8.	Chipped & Scratched Kernels	3.0	5.0	10.0
9.	Double & twin Kernel	3.0	5.0	10.0
	<b>Range Acceptance</b>	95%	90%	85%
B	<b>Optional (Industrial/processor)</b>			
1.	Acid Value of extracted Oil, as oleic acid (% by wt) Max	0.4	0.6	1.25
2.	Acid insoluble Ash %	0.1	0.1	0.1
3.	Oil Content % by weight (Minimum)	47.0	45.0	42.0

### 5. Sampling

- (i). 5% or minimum one container should be selected for sampling.
- (ii). 250 gm shall be drawn from each selected container and mixed homogenously, called as primary sample.
- (iii). 250 gm shall be drawn from primary sample called as laboratory sample.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 211. PINENUT

Common name: Pinenut, Chilgoza, Neza

English name: Pinenut

Botanical name: *Pinus pinea* L., *P. wallichiana* and *P. gerardiana*



1. Pinenut shall be:-
  - (i). whole, intact, sound, well dried, well formed;
  - (ii). have uniform size, shape, color and condition, slender, brown in color;
  - (iii). possess marked degrees of natural fragrance characteristic of pine nut;
  - (iv). free from artificial coloring, polishing agents, artificial fragrances and any other chemicals, obnoxious smell and mustiness;
  - (v). free from rodent hair and excreta, filth, moulds, live and dead insects, insect fragments, mites, debris or excreta and fungus;
  - (vi). free from any pest, whatever their stage of development;
  - (vii). free from resinous materials.
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer)
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
A.	<b>Primary Parameters</b>			
1.	Moisture (% by wt) Max	4.0	6.0	7.0
2.	Foreign Matter(% by wt) Max	0.2	0.5	1.0
3.	Insect Damaged (% by wt) Max	0.5	1.0	1.5
4.	Damaged (% by wt) Max	2.0	4.0	6.0
5.	Shrivelled & Immature (% by wt) Max	1.0	2.0	3.0
	<b>Range Acceptance</b>	95%	90%	85%
B	<b>Optional (Industrial/processor)</b>			
1.	Acid Value of extracted oil, as oleic acid (% by wt) Max	1.5	2.5	4.0
2.	Oil Content % by weight (Minimum)	45.0	30.0	30.0

### 5. Sampling

- (i). 5% or minimum one container should be selected for sampling.
- (ii). 100 gm shall be drawn from each selected container and mixed homogenously, called as primary sample.
- (iii). 100 gm shall be drawn from primary sample called as laboratory sample.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 212. LOTUS STEM

Common name: Lotus stem, Kamal kakdi, Nadroo

English name: Lotus stem

Botanical name: *Nelumbo nucifera*

Variety Name:



### 1. Lotus Stem shall be-

- (i). wholesome, firm, fresh, clean, of reasonably uniform size, of same variety and
- (ii). free from visible foreign matter, abnormal external moisture, foreign smell

2. Variety.....(to be filled by assayer)

3. Actual Picture of the lot ..... ( to be uploaded by assayer)

### 4. Criteria for Range designation :

S. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary Parameters</b>			
1.	Size (mm)	Up to 350	Up to 250	Up to 150
2.	Diameter (mm) minimum	25	20	15
3.	Defects % by count (Max):-			
	(i) Mechanical injury	2	5	10
	(ii) Skin defects (Bruising/scratches/cut) (1-10 sq cm of total surface area)	2	5	7
	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
1.	Colour (Characteristic true to variety) Scale (1 to 100) Visual 100% is true to variety colour	More than 70	Between 40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling
- (ii) 5 nos. shall be drawn from each selected container and shall be mixed homogenously, called as primary sample
- (iii) 5 nos. shall be drawn from primary sample called as Laboratory sample

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 213. MUSHK BUDJI RICE

Common name: Mushk budji rice  
 English name : Kashmiri Aromatic rice  
 Botanical name: *Oryza sativa*



### 1. Mushk budji rice shall be:

- (i). clean, wholesome, short grain, reasonably uniform in size, shape and colour with marked degree of natural fragrance characteristic to the variety;
- (ii). free from obnoxious smell and fungus infestation.

2. Variety .....(to be filled by assayer)

3. Actual Picture of the lot .....( to be uploaded by assayer)

### 4. Criteria for Range designation:

Sr. No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary Parameters</b>			
1.	Moisture (% by wt) Max	12.0	13.0	14.0
2.	Foreign matter (% by wt) Max	0.50	0.75	1.0
3.	Broken/Damaged/Chalky grains (% by wt) Max	7.0	10.0	13.0
4.	Red /Green grains/Paddy Grains (% by wt) Max	2.0	3.0	4.0
5.	Other varieties of rice (% by wt) Max	7.0	10.0	15.0
	Range acceptance	95%	90%	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
1.	Alkali Spreading Value	4 to 7		
2.	Amylose content (%)	20 to 25		

### 5. Sampling:

- (i) 5% or minimum one container shall be randomly selected for sampling.
- (ii) 250gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other variety of rice means the presence of a variety other than the one under consideration;
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injury.
- (iv) Broken grains means pieces of sound kernels that are less than three fourths of the size of full kernels.
- (v) Chalky Grains are pieces of kernels of which at least three quarters of the surface is opaque, milky white in colour and brittle in nature.
- (vi) Red grains shall be the kernels, whole or broken which have 25% or more of their surface coated with red bran. Green grains shall be the kernels, whole or broken which are greenish in color.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 214. SNOW MOUNTAIN GARLIC

Common name: Kashmiri lahsun, Ek pothi lahsun, One pod Garlic, Gathiya lahsun

English name: Snow Mountain Garlic

Botanical name: *Allium sativum* sub-species like *A. ampeloprasum*

Varieties name:



### 1. Snow Mountain Garlic (SMG) pod shall be-

- (i). intact, firm, clean, of reasonably uniform size & shape, color characteristic to the variety;
- (ii). free from visible foreign matter, abnormal external moisture, foreign smell;
- (iii). SMG may be fresh or partially dry or dried.

2. Variety..... (to be filled by assayer)

3. Actual Picture of the lot..... ( to be uploaded by assayer)

### 4. Criteria for Range designation:

S.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary Parameters</b>			
1.	Defects % by count (Max):- (i) Irregular shape	3	5	7
	(ii) Slight tears in outer skin	2	4	6
	<b>Range Acceptance</b>	95 %	90 %	85 %
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
1.	(i) SMG Pods diameter	0.8- 2.0 cm		
	(ii) SMG Pods length	0.8-1.5 cm		

### 5. Sampling: -

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100 gm shall be drawn from each selected container and shall be mixed homogenously called as primary sample.
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.

## 215. KHESARI DAL

Common name: Khesari Dal English

name : Grass-pea

**Botanical name:** *Lathyrus sativus*



### 1. Khesari Dal shall be-

- (i). clean, wholesome, reasonably uniform in size, shape and having colour characteristic to the variety;
  - (ii). free from obnoxious smell and fungus infestation.
2. Variety.....(to be filled by assayer)
  3. Actual Picture of the lot ..... ( to be uploaded by assayer)
  4. **Criteria for Range designation :**

Sr.No.	Tradable Parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary Parameters</b>			
1.	Moisture(% by wt) Max	10.0	12.0	14.0
2.	Foreign matter(% by wt) Max	1.0	1.5	2.0
3.	Other edible grains(% by wt) Max	1.0	2.0	3.0
4.	Damaged grains(% by wt) Max	2.5	3.5	5.0
5.	Weevilled Grains (% by count) Max	3.0	5.0	10.0
6.	Admixture (% by wt) Max	1.0	2.0	3.0
7.	Immature & Shrivelled (% by wt) Max	1.0	2.0	3.0
8.	Range acceptance	95%	90%	85%
<b>B.</b>	<b>Optional (Industrial/Processor)</b>			
1.	Uric Acid	Not more than 100mg/kg		
2.	Aflatoxin	Not more than 15 microgram/kg		
3.	Total of foreign matter, other edible grains and damaged grains	Not more than 9 percent by weight		

### 5. Sampling:-

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i) Foreign matter includes husk, straws, weed seeds, other inedible grains, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii) Other Edible Grains means any edible grains (including oil seeds) other than the one under consideration.
- (iii) Damaged Grains means grains that are sprouted or internally damaged as a result of heat, microbe, moisture or weather and mechanical injured grains in case of whole pulses.
- (iv) Weevilled grains means grains that are partially or wholly bored by insects injurious to grains but does not include germ eaten grains and egg spotted grains.
- (v) Immature & Shrivelled Grains means kernels or pieces of kernels that are not fully developed.
- (vi) Admixture means the presence of a variety of the same grain other than the one under consideration.

**Optional parameters** are voluntary and may be analyzed as per buyer-seller agreement.



## 216. WALNUT KERNEL

Common name: Akhrot giri/ अखरोट गिरी

English name: Walnut kernel

Botanical name: *Juglans regia*



1. Walnut kernels shall be:-

- (i). sound, clean, sufficiently developed and dried;
- (ii). uniform in color with characteristic taste and flavour;
- (iii). free from pests and damage caused by pests including dead insects and/or mites, their debris or excreta;
- (iv). free from mould filaments;
- (v). free from rancidity and foreign smell and/or taste;

2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer).

4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) Max	4.5	5.0	5.0
2.	Extraneous vegetable matter (% by wt.) Max	0.5	0.75	1.0
3.	Foreign matter (% by wt.) Max	0.1	0.3	0.5
4.	Damaged (% by wt.) Max	4.0	7.0	10.0
5.	Broken (% by wt.)	Less than 5	5-15	More than 15
	Range acceptance	95%	90%	85%
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Color	Extra light/Light	Light amber	Amber
2.	Acidity of extracted oil (as oleic acid) % by wt. Max	1.25		
3.	Oil Content % by weight (Minimum)	50.0	45.0	40.0

5. **Sampling:**

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 250 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 250 gm shall be drawn from primary sample called as Laboratory sample.

6. **Definitions:**

- (i). Extraneous vegetable matter means the vegetable matter associated with the plant from which the product originates.
- (ii). Foreign matter is any matter or material not usually associated with the product.
- (iii). Damaged means the kernels affected by sunburn, scars, mechanical injury, discoloration or visible damage caused by boring and feeding of insects and animal parasites.
- (iv). Broken pieces are portions of kernels which can pass through a 8mm round hole screen but not through a 3mm round hole screen.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 217. KHANDSARI

Common name: Khandsari sugar, Khand

English name: Un-Refined sugar, Muscovado sugar, Barbados sugar

Botanical name: *Saccharum officinarum* is the plant from which it is extracted

1. Khandsari shall be:-
  - (i) in crystalline or powder form;
  - (ii) white or yellowish white in colour;
  - (iii) sweet in taste;
  - (iv) free from dirt, filth, iron filings and added colouring matter;
2. Variety/type (to be filled by assayer)



- (i) Khandsari (Desi): Khandsari obtained from sugarcane juice using open pans for concentration and clarified using natural clarificants.
- (ii) Khandsari (Sulphur): Khandsari obtained from sugarcane juice using open pans for concentration and clarified using sulphur.

3. Actual picture of the lot (to be uploaded by assayer).

4. Criteria for range designation

S. No.	Tradable parameters	Khandsari (Desi)			Khandsari (Sulphur)		
		Range-1	Range-2	Range-3	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>						
1.	Moisture (% by wt.) Max	0.7	1.0	1.5	0.7	1.0	1.5
2.	Extraneous matter (% by wt) Max	0.15	0.25	0.50	0.15	0.25	0.50
3.	Sucrose/Polarization (%) Min	95	94	93	97.5	97	96.5
4.	Acid insoluble ash (% by wt.) Max	0.3	0.5	0.7	0.2	0.4	0.5
5.	Specific conductivity (mhos/cm <sup>2</sup> ×10 <sup>6</sup> ) in 5% solution at 30°C, Max	100			300		
	Range acceptance	95%	90%	85%	95%	90%	85%
<b>B</b>	<b>Optional (Industrial/processor)</b>						
1.	Sulphur dioxide (mg/kg) Max	Nil			70		
2.	Calcium oxide (mg/100g) Max	50			100		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 gm shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 218. KIWI

Common name: Kiwi fruit, Chinese gooseberry  
 English name: Kiwi fruit, Chinese gooseberry  
 Botanical name: *Actinidia chinensis Planch.* and *Actinidia deliciosa (A. Chev.)*



1. Kiwi fruit shall be:-
  - (i). adequately firm, not soft, shrivelled or water soaked;
  - (ii). intact, sound, clean, well formed and fresh in appearance;
  - (iii). practically free from pests and damage caused by pests affecting the flesh;
  - (iv). free from any foreign smell and/or taste.
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Size (gm)	More than 90	65-90	Less than 65
2.	Defects (% by count) Max.			
	(i) Defects in shape	4	6	8
	(ii) Defects in colour	4	6	8
	(iii) Skin defects such as small healed cuts or scarred/grazed tissue (0.5-2.0 sq cm of total surface area)	4	8	12
3.	Ratio of minimum/maximum diameter of the fruit measured at the equatorial section	More than 0.8	More than 0.7	-
	Range acceptance	95%	90%	85%
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Colour (Characteristic true to variety) Scale (1 to 100) Visual 100% is true to variety colour	More than 70	40-70	Less than 40

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 10 nos. shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 10 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 219. SARDA

Common name: Sarda

English name: Canary melon, Sun melon, Winter melon

Botanical name: Cucumis melo

1. Sarda shall be:-

- (i) intact, firm, sound, clean and fresh in appearance;
- (ii) with greenish yellow skin and sweet in taste;
- (iii) sufficiently developed and display satisfactory maturity and or ripeness;
- (iv) practically free from pests and damage caused by pests affecting the flesh;
- (v) free from any foreign smell and/or taste.



2. Variety (to be filled by assayer)

3. Actual picture of the lot (to be uploaded by assayer).

4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary Parameters</b>			
1.	Size (gm)	More than 500	300-500	Less than 300
2.	Diameter (cm)	Not less than 8.5	7.5-8.5	Less than 7.5
3.	Defects (% by count) Max.			
	(i) Defects in shape	4	6	8
	(ii) Defects in colour	4	6	8
	(iii) Skin defects such as cracks, scratches or bruises (0.5-2.0 sq cm of total surface area)	3	7	10
	Range acceptance	95%	90%	85%
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Colour (Characteristic true to variety)Scale (1 to 100) Visual 100% is true to variety colour	More than 70	40-70	Less than 40

**5. Sampling:**

(i) 5 % or minimum one container shall be randomly selected for sampling.

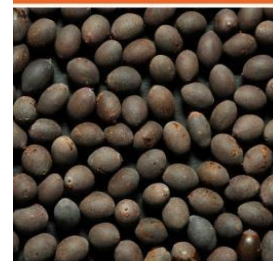
(ii) 5 nos. shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.

(iii) 5 nos. shall be drawn from primary sample called as Laboratory sample.

**Optional parameters are voluntary and may be analyzed as per buyer-seller agreement.**

## 220. MAKHANA SEED

Lotus Seeds (Makhana)



Common name: Fox nut, Gorgon nut, raw makhana

Botanical name: *Euryale Ferox* Salisb.

1. Makhana seed shall be:-
  - (i). clean, wholesome and having a hard seed coat which is black in color;
  - (ii). have characteristic and aromatic flavour with sharp and sweet pleasant aroma;
  - (iii). free from rancid taste and musty odour;
  - (iv). free from obnoxious smell and fungal infestation;
  - (v). free from filth, rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Foreign matter (% by wt.) max	0.2	0.5	1.0
2.	Damaged and discolored seeds (% by wt.) max	2.0	3.0	5.0
3.	Insect damaged seeds (% by wt.) max	0.25	0.5	1.0
4.	Size (Diameter of seed in mm)	More than 13	8-13	Less than 8
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Total ash (% by wt.) max	0.5	1.0	1.5
2.	Crude fibre(% by wt.) max	1.0		
3.	Protein (% by wt.) min	7.0		

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 500 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 500 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Foreign matter includes husk, straws, weed seeds, other vegetable matters of the plant, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii). Damaged and discoloured seeds means whole or broken, obviously or internally damaged due to heat, microbes, moisture or weather or other causes.
- (iii). Insect damaged seeds mean seeds that are partially or wholly bored or damaged by insects.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**

## 221. POPPED MAKHANA

Common name: Fox nut, Gorgon nut, raw makhana

Botanical name: *Euryale Ferox* Salisb.



1. Popped makhana shall be:-
  - (i). clean, wholesome and of white or cream color;
  - (ii). have characteristic and aromatic flavour with sharp and sweet pleasant aroma;
  - (iii). free from rancid taste and musty odour;
  - (iv). free from obnoxious smell and fungal infestation;
  - (v). free from filth, rodent hair and excreta
2. Variety (to be filled by assayer)
3. Actual picture of the lot (to be uploaded by assayer).
4. Criteria for range designation

S. No.	Tradable parameters	Range-1	Range-2	Range-3
<b>A.</b>	<b>Primary</b>			
1.	Moisture (% by wt.) max	10.0	11.0	12.0
2.	Foreign matter (% by wt.) max	0.2	0.5	1.0
3.	Damaged and discolored (% by wt.) max	2.0	3.0	5.0
4.	Insect damaged (% by wt.) max	0.25	0.5	1.0
5.	Diameter (mm)	More than 15	10-15	Less than 10
6.	Color	Creamy white with natural reddish spot	Creamy white with more no. of reddish spots	Creamy white with more no. of reddish spots
7.	Shape	Fully expanded	Fully expanded	Flattened and irregular
<b>B</b>	<b>Optional (Industrial/processor)</b>			
1.	Total ash (% by wt.) max	0.5	1.0	1.5
2.	Crude fibre(% by wt.) max		1.0	
3.	Protein (% by wt.) min		9.0	

### 5. Sampling:

- (i) 5 % or minimum one container shall be randomly selected for sampling.
- (ii) 100 g shall be drawn from each selected container and shall be mixed homogenously, called as primary sample.
- (iii) 100 gm shall be drawn from primary sample called as Laboratory sample.

### 6. Definitions:

- (i). Foreign matter includes husk, straws, weed seeds, other vegetable matters of the plant, metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay, mud and animal filth etc.
- (ii). Damaged and discoloured means roasted makhana whole or broken, obviously or internally damaged due to heat, microbes, moisture or weather or other causes.
- (iii). Insect damaged means roasted makhana that are partially or wholly bored or damaged by insects.

**Optional parameters are voluntary and may be analysed as per buyer-seller agreement.**