

Quality Specifications for selected MFPs

(Fair Average Quality Grade)

1. SPECIFICATION OF TAMARIND WITH SEED

A) General Characteristic:

1. Tamarind (with seed) shall be obtained from *Tamarindus indica* L. after removal of outer covering from the mature and ripe fruits.

2. General Requirements:-

- (i) Tamarind (with seed) shall be mature and ripe and have characteristic taste.
- (ii) The color shall be pale yellow to brown
- (iii) Tamarind (with seeds) shall be free from rancid taste and musty odor.
- (iv) Tamarind (with seed) shall be free from external moisture or any other deleterious substance.

B) Special Characteristic:

S .No	Parameter	Maximum limits of tolerance
1	Moisture content percent by (Max)	22.00
2	Foreign matter (Organic and Inorganic) percent by weight (Max)	5.00
3	Damaged pods percent by mass on dry basis (Max)	3.00

Definition:

- i) Organic extraneous matter consists of vegetable matters of the plants other than the Tamarind pods and its seeds.
- ii) Inorganic extraneous matter consists of sand, stones, pebbles, lumps of earth, clay, mud etc.
- iii) Damaged pods means insect damaged pods and those which are devoid of pulp.

2. SPECIFICATION OF MAHUA SEED:

A. General Characteristic:

Mahuwa seed shall be the cotyledons obtained after decorticating the seed from the fruit borne on the tree *Madhuca indica*, *Madhuca longifolia*, *Madhuca latifolia*..

Minimum requirement:-

- i) Mahuwa seed shall be wholesome, free from obnoxious smell, deleterious substances and other impurities.
- ii) Mahuwa seed shall have uniform shape, size and color (Yellow to Almond color)

B. Special Characteristic:

S.No	Parameter	Maximum limits of tolerance
1	Moisture percent by weight (Max.)	12.00
2	Foreign matter, percent by weight, (Max.)	6.00
3	Damaged and broken seed percent by weight (Max)	15.00
4	Oil percent by weight (Min.)	38 %

Definitions:

- i) Foreign matter: shall include dust stones, lumps of earth or leaves, and any other edible or non edible seeds.
- ii) Damaged seeds: shall be the seeds which are damaged mechanically or by mould or those showing internal discoloration or seeds materially affecting the quality.
- iii) Broken: shall include those seeds which are less than three – fourth but more than one-fourth of a whole seed.

3. SPECIFICATION OF SAL SEED

A. General Characteristic:

- i. Sal seed shall be dried ripe seed of Shorea robusta Gaertn family Dipterocarpacea.
- ii. Sal seeds shall have uniform size shape and color(light green to yellow);
- iii. Sal seed shall be wholesome, free from insect infestation, obnoxious smell, deleterious substance and other impurities.

B. Special Characteristic:

S.No	Parameter	Limits of tolerance
1	Moisture percent by weight, (Max)	10.00
2	Foreign matter, percent by weight, (Max)	4.00
3	Split and Broken seed percent by weight (Max)	15.00
4	Oil percent by weight (Min)	10.00

Definition: -

- I) Foreign matter: -shall include dust, stone, lumps of earth, leaves any other edible or non- edible seed.
- II) Split and broken seeds: splits shall be the seeds which are broken in two parts length-wise Broken seeds shall be those which are smaller than splits.

4. SPECIFICATION OF KARANJ SEEDS:

A. General Characteristic:

- 1) Karanj seed shall be obtained from clean, healthy and mature pods or beans of the plant *Pongamia pinnata* of family Leguminosae.
- 2) The Karanj Seeds shall be wholesome, mature, clean, dried and of characteristic size, shape, odor and color (brown).
- 3) It shall be free from insect infestation, artificial coloring matter, obnoxious flavor, rancidity and mustiness.

B. Special Characteristic:

S.No	Parameter	Limits of tolerance
1	Moisture percent by weight, (Max)	11.00
2	Extraneous matter (Organic and Inorganic) percent by weight , (Max)	5.00
3	Broken seeds percent by weight, (Max)	15.00
4	Oil percent by weight (Min)	20.00

Definition: -

- i. Organic matter consists of leaves, twigs, stems, organic matters other than the karanj seeds.
- ii. Inorganic matter consists of metallic pieces, sand, gravel, dirt, pebbles, stones, lumps of earth, clay and mud, animal filth.
- iii. Insect infected seed means seeds which are wholly or partially bored or eaten by weevils

5. SPECIFICATION OF CHIRONJI GUTHLI:

A. General Characteristic:

- i. Chironjee (seed) shall be obtained from *Buchanania lanzan* of family Anacardiaceae.
- ii. Chironjee shall be free from insect's infestation.
- iii. The Chironjee Seeds shall wholesome mature, clean & dried
- iv. The Chironjee shall have characteristic size, shape & color (Gray to black)

B. Special Characteristic:

S .No	Parameter	Limits of tolerance
1	Moisture percent by weight, (Max)	14.00
2	Foreign matter (Organic and Inorganic) percent by weight , (Max)	5.00
3	Broken and damaged seeds percent by weight, (Max)	4.00
4	Percentage of seed floating on water (Max)	10.00

6. SPECIFICATION OF MYROBALAN:

A. General Characteristic:

- i) Myrobalan shall be obtained from the plant Terminalia chebulla of family Combretaceae.
- ii) It shall be sound and solid nuts free from insect infestation.
- iii) Myrobalan shall have characteristic shape, size & colour (yellow to brown/black) of the species found in the area.

a. Special Characteristic:

S .No	Parameter	Limits of tolerance
1	Moisture percent by weight, (Max)	11.00
2	Extraneous matter (Organic and Inorganic) percent by weight, (Max)	5.00

Definition: -

Extraneous matter: this comprised dust, dirt, crushed matter , seeds and other foreign matter.

7. SPECIFICATION OF GUM KARAYA:

A. General Characteristic:

- 1) Gum karaya (crystal) is a vegetable gum produced as exudates by tree of the genus Sterculia urens.

- 2) Shall be reasonably dried.
- 3) It shall be free from fungus, insect infestation, rodent excreta etc.

B. Special Characteristic:

Grade	Color	Moisture % by weight (Max)	Bark and foreign matter % by weight
I	White with slight grey and yellow cast	10.00	1.50
II	Pale yellow to light tan and brown	10.00	3.00
III	Brown to black and mixed.	10.00	10.00

Definition:

- i) Foreign matter shall include bark, leaves, dust, dirt, stones pieces or any other organic and inorganic matter other than Gum karaya.

8. SPECIFICATION OF HONEY

A. General Characteristic:

- i. Honey shall be obtained from well ripened honey combs.
- ii. Honey shall be of sweet taste & characteristic aroma.
- iii. Of uniform color throughout and may vary from light to dark brown.
- iv. It shall be free from visible mould, inorganic or organic matters such as insect, debris, brood or grains of sand dirt, pieces of beeswax, the fragments of bees and other insects and free from any other extraneous matter, microorganism.
- v. It should be free from any adulterants like molasses, corn syrup etc.

B. Special Characteristic of Honey:

S.No	Parameter	Limits of tolerance
1	Specific gravity (Min)	1.35
2	Moisture percent by weight, (Max)	25.00
3	pH	3.2-4.5
4	Fiech"s test	Negative

