

**Wheat:** Wheat shall be dried mature grains of *Triticum aestivum* L. (*Triticum sativum* L., *T. vulgare* host.):

S.No	Tradable Parameters	Test Result	Reference range		
			Range-I	Range- II	Range- III
1	Moisture (% by wt)		11.5-12.5	12.6-13.5	13.6-14.0
2	Foreign matter (% by wt)		1.5-2.5	2.6-3.5	3.6-4.0
3	Other food grains (% by wt)		1.6-3.0	3.1-6.0	6.1-8.0
4	Damaged grains (% by wt)		1.0-2.0	2.1-4.0	4.1-5.0
5	Other Wheats (% by wt)		5.0-15.0	15.1-20.0	Over 20
6	Slightly damaged grains (% by wt)		2.0-4.0	4.1-6.0	6.1-10.0
7	Weevilled grains (% by count)		1.0-3.0	3.1-6.0	6.1-10.0
8	Immature Shriveled and broken grains (% by wt)		2.0-4.0	4.1-10.0	Over 10.0
9	Uniformity in grain size		More uniform	Slightly uniform	Less uniform
10	Luster		Normal	Medium	Poor

#### Explanations:

- a) "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.
- b) Other Food Grains: - Edible food grains other than gram.
- c) Other Wheats :- For this purpose wheat would be divided into two classes - (1) Durum or macaroni wheat and (2) Vulgare or common wheat would be subdivided into two colour groups (1) amber and (2) red; and vulgare would be subdivided into three colour groups - (i) white (ii) amber and (iii) red
- d) Damaged Grains- Grains that are internally damaged or discoloured, damaged and discolouration materially affecting the quality.
- e) Slightly Damaged Grains- Grains that are internally damaged or discoloured, damaged and discolouration not materially affecting the quality.
- f) Immature, Shriveled & Broken Grains - Immature and shriveled grains are those that are not properly developed, Broken grains are pieces of whole grains.
- g) Weevilled grains - Grains that are partially or wholly bored or eaten by weevil or other grain insects,
- h) Uniformity means having similar characteristics mainly regarding the size or weight, and colour.
- i) "Luster" means the state or quality of Shining by reflecting light, glitter, sparkle, sheen, or gloss.

**Paddy:** shall be the dried mature grains (with husk) of *Oryza sativa* (L.).

S.No	Tradable Parameters	Test Result	Reference range		
			Range-I	Range- II	Range- III
1	Moisture (% by wt)		17.0-18.0	18.1-19.0	19.1-20.0
2	Foreign matter (% by wt)		1.0-2.0	2.1-4.0	4.1-7.0
3	Admixture (% by wt)		5.0-10.0	10.1-15.0	15.1-30.0
4	Damaged, Immature and Weevilled grains (% by wt)		1.0-2.0	2.1-5.0	5.1-10.0
5	Uniformity		More uniform	Slightly less uniform	Less uniform
6	Lustre		Normal	Medium	Poor

**Explanations:**

- a) 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.
- b) Admixture: - Presence of inferior varieties shall be considered as admixture.
- c) Damaged: - Grains that are internally damaged or discoloured, damage and discolouration materially affecting the quality.
- d) Immature: - Grains that are not properly developed.
- e) Weeviled :- Grains that are partially or wholly bored or eaten by weevil or other grain insects.
- f) Uniformity means having similar characteristics mainly regarding the size or weight, and colour.

**Sampling Plan (Bags):**

Number of bags in the lot	Number of bags in the Sample
Upto 100	20
101-300	32
301-500	50
501-1000	80
1001 and above	125

**Sampling Plan (Bulk):**

Quantity	Number of spots from which samples to be drawn
Upto 300 tonnes	30 spots
301 to 1000 tonnes	50 spots
1001 tonnes and above	100 spots