

## Section A

### Glossary of Terms used in Rice Grading

1. Rice means whole or broken kernels of rice from which husks and at least the outer bran layers and a part of the germs have been removed. It also includes loonzain (cargo rice or brown rice), parboiled rice and glutinous rice.
2. Whole kernels A rice kernels which is not broken.
3. Head Rice A pieces of kernels having having the length equal to or greater than three-fourths of the average length of the unbroken kernels
4. Big broken Pieces of Kernels smaller than three-fourth but bigger than one half the average length of the unbroken kernels as specified for each grade under this standard but the length of the kernels must be less than that of head rice
5. Broken Pieces of kernels having its length one-fifth or more of the average length of the unbroken kernels specified for each grade under this standard but, the length of the kernels must be less than big broken.
6. Small broken Pieces of kernels which do not exceed one-fifth average length of the unbroken kernels. The minimum limit is that which does not pass through a sieve having round perforations not greater than 1.4mm (0.055 inches) in diameter.
7. Moisture means content of water in the rice which is commonly expressed in the wet basis i.e. the percent age of water present in the wet grain. It is determined by the air oven method, by distillation , or by means of meters, which related electric resistance of dielectric properties of the grain to its moisture content.
8. Red Streaked Kernels kernel having red streaks, the total length of which amounts to one half or more of the length of the kernels but which are free from red patches amounting to 25% of the surface are of the grain.
9. Red Kernels Whole kernels of rice having 25% or more of the surface is red.
10. Chalky Kernels Kernels having, one half or more of the surface is white like a color of chalk.
11. Damaged Grain kernels of rice which are distinctly discolored of damaged by heat, water, insect, fungi or any other means. In parboiled kernels non-parboiled rice are also considered as damaged kernels.
12. Yellow kernels kernels that have changed their normal color into yellow or yellowish brown as a result of heating and natural agents.

- |                           |   |
|---------------------------|---|
| 13. Paddy                 | Unhusked kernels of rice  |
| 14. Shrivelled Kernels    | Unusually slender kernels   |
| 15. Immatured Kernels     | kernels which are unripe or under developed usually light green in color.   |
| 16. Split Kernels         | A kernels that breaks lengthwise into parts   |
| 17. Foreign matters       | all matter other than head rice, big broken and broken and include dust, husk, weevilled web ( excluding rice and broken) straw, dead insects, sand and dirt, seeds or other plants and points. |
| 18. Seed                  | Seed of any plant other than paddy.   |
| 19. Stained kernels       | Black spot on the surface or seed coat stained by disease or by weather.  |
| 20. Weevilled Kernels     | Bored or bitten off grains after being attacked by rice weevils.  |
| 21. Floor Damaged kernels | Damaged caused to bottom layer of bags in storage due to heat, pressure and dampness.   |
| 22. Deteriorated Kernels  | Grains badly damaged by heat and water. Grains turn to powder even if slight pressure is applied to the grain.  |
| 23. Dead Kernels          | Black shrunken kernels in parboiled rice  |
| 24. Half Boiled Kernels   | Paddy not fully and properly gelatinized.   |
| 25. Mildwed Kernels       | Kernels with grayish rust coated on the surface of individual kernel.   |
| 26. Foreign Kernels       | Kernels of any variety other than kernels of the specified variety.   |
| 27. Uneven color          | Inter admixture of light yellow, yellow and orange colored parboiled rice.  |
| 28. Meal                  | Rice polishing that comes out from the brown crust (aleurone layers) germ and part of starchy kernels of the rice kernels (meal should have been removed during milling)                        |

## Section B

### Definitions on types and grades of Myanmar Rice

Myanmar main export groups of rice comprises of White rice, Loonzain Rice (Brown Rice or Cargo Rice) Glutinous Rice, Boiled Rice and Broken Rice.

#### I. Types of rice

The quality of Myanmar rice is classified according to the types of rice, namely:

- a) Ngasein Type
- b) Emata Type
- c) Zeera Type
- d) Paw San or Nga kywe type
- e) Kyauknying type

#### II. Grades of rice

The grades, designated according to the percentage of contents of the broken rice are as shown in the standard specifications of Myanmar rice.

#### III. System of Rice Grading

Generally by volumetric system except higher quality grades which are measured by weight system according to the specification of the contract.

## Section C

### Milling Degree

#### **Extra Well milled**

Paddy from which the husk, the germ and the bran layers have been completely removed to the extent that appearance is translucent.

#### **Well milled**

Paddy from which the husk, the germ and the bran layers have been removed to a degree than that of extra well milled rice.

#### **Reasonable well milled**

Paddy from which the husk, the greater part of the germ and bottom of its outer and inner bran layers have been removed to a certain extent but in the degree less than that of well milled rice.

#### **Ordinarily Milled**

Paddy from which the husk and certain part of the germ and the whole part of its outer bran layers have been removed with some part of the inner bran layers remains intact.

#### **Slightly low milling (SLM)**

Degree of milling is about half way between the acceptable grade and the low milling.

#### **Low milling (LM)**

Degree of milling is about half way between the acceptable grade and the next lower grade

#### **Under milled**

Degree of milling is almost as low as the next lower grade of the acceptable grade.

## Section D

### System of Grading of Broken Rice in Myanmar

Grading of broken rice in Myanmar is based primarily on the following three factors:

1. The milling degree of the rice in milling which the broken rice is produced
2. The nature of processing, i.e. "Loozain (Husked); "White" (Raw); "Boiled" (Parboiled)
3. The composition i.e. the proportion of different sizes of broken in the broken rice. In one grade, only brokens of the same type of rice are included.

The size of brokens are same as shown below:

Extra	Those which are bigger than No.1 Brokens
No.1	Those which fall through sieve No. 8 ½ but are retained on sieve No.8
No.2	Those which fall through sieve No. 8 but are retained on sieve No.7
No.3	Those which fall through sieve No. 7 but are retained on sieve No. 6 ½
No.4	Those which fall through sieve No. 6 ½but are retained on sieve No. 6.

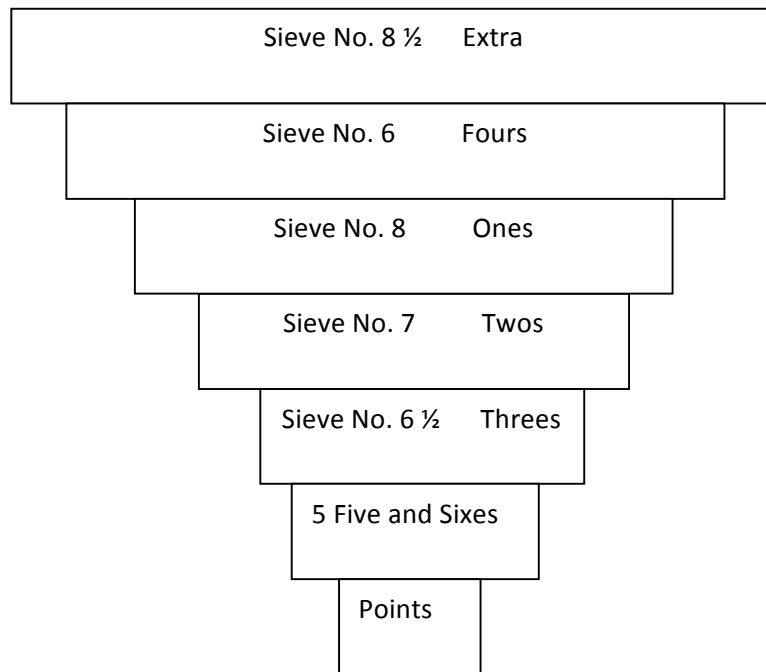
Small brokens      Those which are smaller than the smallest brokens specified in the composition of particular grade

Points      Very minute pieces of kernels

The measurement of the perforations of the sieves are as follows:

Sieve No.	Diemeter of perforation
8 ½	0.091 inch (2.3mm)
8	0.085 inch (2.16mm)
7 ½	0.075 inch (1.9mm)
7	0.069 inch (1.75mm)
6 ½	0.062 inch (1.57mm)
6	0.055 inch (1.4mm)

Diagram



The standards of the above factors for fair average qualities of Myanmar broken rice are shown in the specifications later stage.

## Section E

### Standard Specifications for Myanmar White Rice, Broken Rice and Rice Bran

Myanmar white rice

Emata super 100%

Emata super 100% ( New specification)

Zeera Super 100%

Pawsan /Ngakywe Super 100%

Zeera Super 5%

Emata super 5% (New specification)

Emata super 10%

Emata super 10% (New specification)

Zeera super 10%

Ngasein super 10%

Emata Myanmar 15%

Emata Myanmar 15%(New specification)

Zeera Myanmar 15%

Emata Myanmar 20%

Emata Myanmar 25%

Emata Myanmar 25%(New specification)

Ngasein Myanmar 25%

Zeera Myanmar 25%

Kyauknyin Myanmar 25%

Emata Myanmar 35%

Ngasein Myanmar 35%

Zeera Myanmar 35%

Emata Myanmar 45%

Emata Myanmar 50%

Loonzain 5%

Loonzain 18%

Loonzain 100%

Long boiled 10%

Long boiled 100%

Myanmar Broken Rice & Rice Bran

A Extra

A1 & Extra milled

A1

A2

A1 & 2 Mixed

A2,3 and 4 mixed

B Extra

B1 and extra milled

B1

B2

B1 and 2 Mixed

B2,3 and 4 mixed

Ordinary 2,3 and 4 mixed

Boiled Broken Rice

Cargo Broken Rice

Rice Bran



## Emata Super 100%

1. Grain Composition
  - a. Whole kernels and Head rice 96%
  - b. Big Brokens 4%
  - N.B Size of Big Broken (-)0.75  
(+)0.625
  
2. Paddy 15 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.1%
    - Yellow: 2<sup>nd</sup> half of the year 0.5%
    - Otherwise damaged 0.1%
  
  - b. Foreign Kernels 3.0%
  - c. Red and Red Streaked Kernels 1.0%
  - d. Chalky Kernels 0.5%
  
4. Milling degree Extra Well Milled
5. Moisture content 14% maximum

## Emata Super 100% ( New specification)

1. Grain Composition
  - a. Whole kernels and Head rice 55%
  - b. Average length 5.5-6.2mm
  - c. Whole Kernels and Head rice
  - d. Head rice and big brokens 40%
  - e. Brokens  $\leq 5\%$
  - f. Size of Brokens
  - g. Small broken and Chips
  
2. Paddy 15 Grains per KG
  
3. Maximum allowance of mixture
  - a. Chalky Kernels 2%
  - b. Yellow Kernels 0.5%
  - c. Damaged Kernels 0.1%
  - d. Immature Grains -
  - e. Foreign Grains 1.0%
  - f. Foreign matters 0.5%
  
4. Milling degree Extra Well Milled
5. Moisture content 14% maximum

## Zeera super 100%

1. Grain Composition	
a. Whole kernels and Head rice	95%
b. Big Brokens	3%
c. Brokens	2%
N.B (1) Size of Big Brokens	(-)0.75
	(+)0.50
(2) Size of Small Brokens	(-)0.50
	(+)0.33
2. Paddy	15 Grains per KG
3. Maximum allowance of mixture	
a. Damage	
- Yellow: 1 <sup>st</sup> half of the year	0.1%
- Yellow: 2 <sup>nd</sup> half of the year	0.5%
- Otherwise damaged	0.5%
b. Foreign matters	0.3%
c. Foreign Kernels	2.0%
d. Red and Red Streaked Kernels	1.0%
e. Chalky Kernels	2.0%
4. Milling degree	Extra Well Milled
5. Moisture content	14% maximum

Pawsan/Ngakywe Super 100%

1. Grain Composition
  - a. Whole kernels and Head rice 95%
  - b. Big Brokens 5%
  - N.B Size of Big Broken (-)0.75  
(+)0.50
  
2. Paddy 15 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Otherwise damaged 0.5%
  
  - b. Foreign matters -
  - c. Foreign Kernels 1.0%
  - d. Red and Red Streaked Kernels 1.0%
  - e. Chalky Kernels -
  
4. Milling degree Extra Well Milled
5. Moisture content 14% maximum

## Zeera Super 5%

1. Grain Composition
  - a. Whole kernels and Head rice 78%
  - b. Big Brokens 15-17%
  - c. Brokens 3-10%
  - N.B Size of Big Brokens (-)0.75  
(+)0.50
  - Size of Brokens (-)0.50  
(+)0.33
  
2. Paddy 22-33 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.5%
    - Yellow: 2<sup>nd</sup> half of the year 1.0%
    - Otherwise damaged 2.0%
  - b. Foreign matters 0.5%
  - c. Foreign Kernels 3.0%
  - d. Red and Red Streaked Kernels 2.0%
  - e. Chalky Kernels 2.5%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Emata Super 5%

1. Grain Composition
  - a. Whole kernels and Head rice 80%
  - b. Big Brokens 13-17%
  - c. Brokens 3-7%
  - N.B Size of Big Brokens (-)0.75  
(+)0.625
  - Size of Brokens (-)0.625  
(+)0.33
  
2. Paddy 22-33 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.5%
    - Yellow: 2<sup>nd</sup> half of the year 1.0%
    - Otherwise damaged 2.0%
  - b. Foreign matters 0.5%
  - c. Foreign Kernels 3.0%
  - d. Red and Red Streaked Kernels 2.0%
  - e. Chalky Kernels 2.5%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Emata Super 5% ( New specification)

1. Grain Composition
  - a. Whole kernels and Head rice 55%
  - b. Average length 5.5-6.2mm
  - c. Whole Kernels and Head rice
  - d. Head rice and big brokens 40%
  - e. Brokens  $\leq 7\%$
  - f. Size of Brokens 0.30-0.75
  - g. Small broken and Chips -
2. Paddy 15 Grains per KG
3. Maximum allowance of mixture
  - a. Chalky Kernels 2.5%
  - b. Yellow Kernels 0.5%
  - c. Damaged Kernels 0.5%
  - d. Immature Grains -
  - e. Red and red streaked Kernels 2.0%
  - f. Foreign Grains 2.0%
  - g. Foreign matters 0.5%
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Emata Super 10%

1. Grain Composition
  - a. Whole kernels and Head rice 75%
  - b. Big Brokens 13-17%
  - c. Brokens 8-12%
  - N.B Size of Big Brokens (-)0.75  
(+)0.625
  - Size of Brokens (-)0.625  
(+)0.33
  
2. Paddy 25-35 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.5%
    - Yellow: 2<sup>nd</sup> half of the year 1.0%
    - Otherwise damaged 2.0%
  - b. Foreign matters 0.5%
  - c. Foreign Kernels 3.0%
  - d. Red and Red Streaked Kernels 2.0%
  - e. Chalky Kernels 3.0%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum



## Emata Super 10% ( New specification)

1. Grain Composition
  - a. Whole kernels and Head rice 52%
  - b. Average length 5.5-6.2mm
  - c. Whole Kernels and Head rice
  - d. Head rice and big brokens 38%
  - e. Brokens  $\leq 12\%$
  - f. Size of Brokens 0.33-0.70
  - g. Small broken and Chips -
  
2. Paddy 20 Grains per KG
  
3. Maximum allowance of mixture
  - a. Chalky Kernels 3.0%
  - b. Yellow Kernels 1.0%
  - c. Damaged Kernels 0.75%
  - d. Immature Grains -
  - e. Red and red streaked Kernels 2.0%
  - f. Foreign Grains -
  - g. Foreign matters 0.2%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Zeera Super 10%

1. Grain Composition
  - a. Whole kernels and Head rice 75%
  - b. Big Brokens 13-17%
  - c. Brokens 8-12%
  - N.B Size of Big Brokens (-)0.75  
(+)0.50
  - Size of Brokens (-)0.50  
(+)0.33
  
2. Paddy 25-35 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.5%
    - Yellow: 2<sup>nd</sup> half of the year 1.0%
    - Otherwise damaged 2.0%
  - b. Foreign matters 0.5%
  - c. Foreign Kernels 3.0%
  - d. Red and Red Streaked Kernels 2.0%
  - e. Chalky Kernels 3.0%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Ngasein Super 10%

1. Grain Composition
  - a. Whole kernels and Head rice 75%
  - b. Big Brokens 13-17%
  - c. Brokens 8-12%
  - N.B Size of Big Brokens (-)0.75  
(+)0.625
  - Size of Brokens (-)0.625  
(+)0.33
  
2. Paddy 25-35 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.5%
    - Yellow: 2<sup>nd</sup> half of the year 1.0%
    - Otherwise damaged 2.0%
  - b. Foreign matters 0.5%
  - c. Foreign Kernels 3.0%
  - d. Red and Red Streaked Kernels 2.0%
  - e. Chalky Kernels 3.0%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Emata Super 15%

1. Grain Composition
  - a. Whole kernels and Head rice 70%
  - b. Big Brokens 13-17%
  - c. Brokens 13-17%
  - d. Small Brokens 0.1%

N.B Size of Big Brokens (-)0.75  
(+)0.60

Size of Brokens (-)0.60  
(+)0.25
  
2. Paddy 30-40 Grains per KG
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5.0%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 4.0%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Emata Super 15% ( New specification)

1. Grain Composition
  - a. Whole kernels and Head rice 45%
  - b. Average length 5.5-6.2mm
  - c. Whole Kernels and Head rice
  - d. Head rice and big brokens 40%
  - e. Brokens  $\leq 17\%$
  - f. Size of Brokens 0.33-0.65
  - g. Small broken and Chips 0.10%
  
2. Paddy 25 Grains per KG
  
3. Maximum allowance of mixture
  - a. Chalky Kernels 4.0%
  - b. Yellow Kernels 1.0%
  - c. Damaged Kernels 1.0%
  - d. Immature Grains 0.2%
  - e. Red and red streaked Kernels 3.0%
  - f. Foreign Grains -
  - g. Foreign matters 0.2%
  
4. Milling degree Well Milled
5. Moisture content 14% maximum

## Ngasein Myanmar 15%

### 1. Grain Composition

- |                                |        |
|--------------------------------|--------|
| a. Whole kernels and Head rice | 70%    |
| b. Big Brokens                 | 13-17% |
| c. Brokens                     | 13-17% |
| d. Small Brokens               | 0.1%   |

N.B Size of Big Brokens

(-)0.75

(+)0.60

Size of Brokens

(-)0.60

(+)0.25

### 2. Paddy

30-40 Grains per KG

### 3. Maximum allowance of mixture

#### a. Damage

- |  |      |
|--|------|
| - Yellow: 1 <sup>st</sup> half of the year | 1.0% |
| - Yellow: 2 <sup>nd</sup> half of the year | 2.0% |
| - Otherwise damaged                        | 3.0% |

#### b. Foreign matters

1.0%

#### c. Foreign Kernels

5.0%

#### d. Red and Red Streaked Kernels

3.0%

#### e. Chalky Kernels

4.0%

### 4. Milling degree

Well Milled

### 5. Moisture content

14% maximum

## Zeera Myanmar 15%

### 1. Grain Composition

a. Whole kernels and Head rice	70%
b. Big Brokens	13-17%
c. Brokens	13-17%
d. Small Brokens	0.1%
N.B Size of Big Brokens	(-)0.75
	(+)0.50
Size of Brokens	(-)0.50
	(+)0.25

2. Paddy 30-40 Grains per KG

### 3. Maximum allowance of mixture

a. Damage	
- Yellow: 1 <sup>st</sup> half of the year	1.0%
- Yellow: 2 <sup>nd</sup> half of the year	2.0%
- Otherwise damaged	3.0%
b. Foreign matters	1.0%
c. Foreign Kernels	5.0%
d. Red and Red Streaked Kernels	3.0%
e. Chalky Kernels	4.0%

4. Milling degree Well Milled

5. Moisture content 14% maximum

## Emata Myanmar 20%

1. Grain Composition
  - a. Whole kernels and Head rice 60%
  - b. Big Brokens 17-22%
  - c. Brokens 18-23%
  - d. Small Brokens 0.1%

N.B Size of Big Brokens (-)0.75  
(+)0.60

Size of Brokens (-)0.60  
(+)0.25
  
2. Paddy 4 grains per 100cc
  
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5.0%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 4.0%
  
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum



## Emata Myanmar 25%

1. Grain Composition
  - a. Whole kernels and Head rice 75%
  - b. Brokens 25%

N.B Size of Big Brokens (-)0.75

  - (1) Not less than 0.25
  - (1) Not more than 0.60

The grain with a length of 0.75 and above shall not be less than 60%

(C) Small Brokens not more than 2%
2. Paddy 4 grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels -
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 8.0%
4. Milling degree Reasonably Well Milled
5. Moisture content Not more than 14%

N.B (1) Size of brokens is determined in proportion to the average length of the unbroken kernels  
(2) Maximum allowance of mixture in damage, red and red streaked kernels and chalky kernels may be measured from the rice

## Emata Myanmar 25% ( New specification)

1. Grain Composition
  - a. Whole kernels and Head rice -
  - b. Average length 5.5-6.2mm
  - c. Whole Kernels and Head rice 70-75%
  - d. Head rice and big brokens 40%
  - e. Brokens  $\leq 28\%$
  - f. Size of Brokens 0.25-0.50
  - g. Small broken and Chips 2.0%
  
2. Paddy 30 Grains per KG
  
3. Maximum allowance of mixture
  - a. Chalky Kernels 8.0%
  - b. Yellow Kernels 1 - 2%
  - c. Damaged Kernels 2.0%
  - d. Immature Grains 0.5%
  - e. Red and red streaked Kernels 3.0%
  - f. Foreign Grains -
  - g. Foreign matters 0.5%
  
4. Milling degree Well Milled
5. Moisture content 14%

## Ngasein Myanmar 25%

1. Grain Composition
  - a. Whole kernels and Head rice 60%
  - b. Big Brokens 12-18%
  - c. Brokens 22-28%
  - d. Small Brokens 0.5%

N.B Size of Big Brokens (-)0.75  
(+)0.50

Size of Brokens (-)0.50  
(+)0.25
2. Paddy 4 Grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5.0%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 8.0%
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum

## Zeera Myanmar 25%

1. Grain Composition
  - a. Whole kernels and Head rice 60%
  - b. Big Brokens 12-18%
  - c. Brokens 22-28%
  - d. Small Brokens 0.5%

N.B Size of Big Brokens (-)0.75  
(+)0.50

Size of Brokens (-)0.50  
(+)0.20
2. Paddy 4 Grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5.0%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 8.0%
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum

## Kyauknyin Myanmar 25%

1. Grain Composition
  - a. Whole kernels and Head rice 60%
  - b. Big Brokens 12-18%
  - c. Brokens 22-28%
  - d. Small Brokens 0.5%

N.B Size of Big Brokens (-)0.75  
(+)0.50

Size of Brokens (-)0.50  
(+)0.20
2. Paddy 4 Grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 10.0%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 4.0%
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum

## Emata Myanmar 35%

1. Grain Composition
  - a. Whole kernels and Head rice 50%
  - b. Big Brokens 10%-20%
  - c. Brokens 30% - 40%
  - d. Small brokens 1%

N.B (1)Size of Big Brokens (-)0.75  
(+)0.50  
(2) Size of Brokens (+)0.50  
(+)0.20
2. Paddy 4 grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 10.0%
4. Milling degree Reasonably Well Milled
5. Moisture content Not more than 14%



## Ngasein Myanmar 35%

1. Grain Composition
  - a. Whole kernels and Head rice 50%
  - b. Big Brokens 10%-20%
  - c. Brokens 30% - 40%
  - d. Small brokens 1%

N.B (1)Size of Big Brokens (-)0.75  
(+)0.50

(2) Size of Brokens (+)0.50  
(+)0.20
2. Paddy 4 grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 10.0%
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum



## Zeera Myanmar 35%

1. Grain Composition
  - a. Whole kernels and Head rice 50%
  - b. Big Brokens 10%-20%
  - c. Brokens 30% - 40%
  - d. Small brokens 1%

N.B (1)Size of Big Brokens (-)0.75  
(+)0.50  
(2) Size of Brokens (+)0.50  
(+)0.20
2. Paddy 4 grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 10.0%
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum

## Emata Myanmar 45%

1. Grain Composition
  - a. Whole kernels and Head rice 40%
  - b. Big Brokens 10%-20%
  - c. Brokens 40% - 50%
  - d. Small brokens 1%

N.B (1)Size of Big Brokens (-)0.75  
(+)0.50  
(2) Size of Brokens (+)0.50  
(+)0.20
2. Paddy 5 grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5%
  - d. Red and Red Streaked Kernels 4.0%
  - e. Chalky Kernels 10.0%
4. Milling degree Reasonably Well Milled
5. Moisture content 14% maximum

## Emata Myanmar 50%

1. Grain Composition
  - a. Whole kernels and Head rice 35%
  - b. Big Brokens 10%-20%
  - c. Brokens 40% - 50%
  - d. Small brokens 1%

N.B (1)Size of Big Brokens (-)0.75  
(+)0.50

(2) Size of Brokens (+)0.50  
(+)0.20
2. Paddy 4 grains per 100cc
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 1.0%
    - Yellow: 2<sup>nd</sup> half of the year 2.0%
    - Otherwise damaged 3.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 5%
  - d. Red and Red Streaked Kernels 3.0%
  - e. Chalky Kernels 10.0%
4. Milling degree Ordinarily Milled
5. Moisture content 14% maximum

## Loonzain Myanmar 5%

1. Grain Composition	
a. Whole kernels and Head rice	90%
b. Big Brokens	(+)3%
c. Brokens	(-)7%
d. Small brokens	1.0% Including split
N.B (1)Size of Big Brokens	(-)0.75
	(+)0.65
(2) Size of Brokens	(+)0.65
	(+)0.35
2. Paddy	1%
3. Maximum allowance of mixture	
a. Damage	
- Yellow: 1 <sup>st</sup> half of the year	1.0%
- Yellow: 2 <sup>nd</sup> half of the year	2.0%
- Otherwise damaged	3.0%
b. Foreign matters	2.0%
c. Foreign Kernels	5%
d. Red Kernels	4.0%
4. Milling degree	Husked
5. Moisture content	14% maximum

## Loonzain Myanmar 18%

1. Grain Composition	
a. Whole kernels and Head rice	72%
b. Big Brokens	(+)8%
c. Brokens	10%
d. Small brokens	1.0% Including split 0.50%
N.B (1)Size of Big Brokens	(-)0.75
(2) Size of Brokens	(+)0.25
2. Paddy	2%
3. Maximum allowance of mixture	
a. Damage	
- Yellow: 1 <sup>st</sup> half of the year	1.0%
- Yellow: 2 <sup>nd</sup> half of the year	2.0%
- Otherwise damaged	3.0%
b. Foreign matters	2.0%
c. Foreign Kernels	5%
d. Red Kernels	12.0%
4. Milling degree	Husked
5. Moisture content	14% maximum

## Loonzain Myanmar 100%

1. Grain Composition
  - a. Whole kernels and Head rice 95%
  - b. Big Brokens 4.0%
  - c. Brokens 1.0%
  - d. Small brokens 1.0% Including split 0.50%

N.B (1)Size of Big Brokens 0.5-0.75  
(2) Size of Brokens
2. Paddy 2%
3. Maximum allowance of mixture
  - a. Damage
    - Yellow: 1<sup>st</sup> half of the year 0.5%
    - Yellow: 2<sup>nd</sup> half of the year 1.0%
    - Otherwise damaged 2.0%
  - b. Foreign matters 1.0%
  - c. Foreign Kernels 3%
  - d. Red Kernels 3.0%
4. Milling degree Husked
5. Moisture content 14% maximum

## Long boiled 10%

1. Grain Composition	
a. Whole kernels and Head rice	80%
b. Big Brokens	10.0%
c. Brokens	10.0%
N.B (1)Size of Big Brokens	(-)0.75
(2) Size of Brokens	(+)0.25
2. Paddy	2%
3. Maximum allowance of mixture	
a. Damage	
- Yellow: 1 <sup>st</sup> half of the year	0.5%
- Yellow: 2 <sup>nd</sup> half of the year	1.0%
- Otherwise damaged	2.0%
b. Foreign matters	1.0%
c. Foreign Kernels	3%
d. Red Kernels	3.0%
4. Milling degree	Husked
5. Moisture content	14% maximum

Long boiled 100%

1. Grain Composition	
a. Whole kernels and Head rice	96%
b. Big Brokens	4.0%
c. Brokens	0.1%
N.B (1)Size of Big Brokens	.625 and above
(2) Size of Brokens	1 & 2
2. Paddy	17 grains per kg
3. Maximum allowance of mixture	
a. Damage	2.0%
b. Foreign matters	-
c. Foreign grains	3%
4. Milling degree	Extra well milled
5. Moisture content	14.5% throughout the year

N.B Boiled rice milled from Emata type of Paddy