

Government of Karnataka
Department of Agricultural Marketing

Office of the Director
of Agricultural Marketing
No.16, 2nd, Raj Bhavan Road,
Bangalore 560001

Subject: Quality parameters, grading, quality certification and other related matters for Moong Whole (Green Gram) sold in online markets – reg.

Preamble

It is necessary to specify quality parameters, grading, quality certification and other related matters for Moong Whole (Green Gram) sold in markets as specified under Rule 91-O (1) of the Karnataka Agricultural Produce Marketing (Regulation and Development) Rules, 1968 (“Rules”) and hence the following order is issued under Rule 91-O (2) of the Rules.

Order no.KruMaE/Niyavi/Avyava/315/13-14, dated: 02/07/2014

1. Title

This order shall be called as Quality parameters, Grading, Quality Certification and other related matters for Moong Whole (Green Gram) sold in the Unified Market Platform Order.

2. Assaying parameters

The parameters which shall be assayed in respect of Moong Whole (Green Gram) brought to the markets specified under rule 91-O (1) of the Rules shall be as specified in Schedule 1 to this order.

3. Sampling procedure

- (1) The lot brought by the seller may be in packed form (in gunny bags) or may be in the form of a heap. Each lot shall be kept separated either as a stack or as a heap for sampling.
- (2) If the lot is brought in packed form, then a bulk sample is prepared by collecting a small quantity of the commodity from the top, middle and bottom of every bag in the lot and thoroughly mixing the quantity so collected.
- (3) If the lot is brought in heap form, then samples are taken from at least seven different parts of the heap, namely, front, back, sides, centre top, centre middle and centre bottom. The quantity so collected is mixed thoroughly to derive the bulk sample.
- (4) A composite sample is prepared by drawing about 1/2 Kg from the bulk sample.
- (5) The composite sample is then divided in to five equal parts of about 100 grams by using a sample divider.
- (6) In case a sample divider is not available, the composite sample is emptied on a flat smooth surface in the form of a circle of thickness of about 12 mm to 25 mm. About 100 grams of sample is then scooped from different points namely, centre, sides, etc., taking care that no foreign matter is left over when scooping.
- (7) Each part is then placed in a separate plastic transparent bag and a sample identity slip as per Schedule 2 to this order shall be attached in each of the bag and the bag sealed. These samples will be distributed as under.
 - One sample to Farmer/Seller for his reference;
 - One sample to APMC for display for traders for inspection;
 - One sample to APMC for dispute resolution;

- One sample to the assaying agency for analysis; and
- One sample for record with the assaying agency.

(8) Necessary particulars shall be entered in a register to have a record of the samples drawn. This register shall be in a format M1 for Moong Whole (Green Gram) and as indicated in Schedule 3 to this order.

4. Assaying procedure

- (1) The sample is first examined to detect the presence of any live infestation. If live infestation is detected in the lot, then the lot would be rejected. Thereafter, the sample is checked for fungus and/or other infestations.
- (2) The sample would then be subjected to physical analysis as detailed in Schedule 4 to this order.
- (3) The assaying agency shall issue a certificate specifying the quality parameters and the period for which the assaying certificate is valid. Thereafter, details of the quality of the lot shall be entered in the Unified Market Platform.

5. Other matters

The seller shall be responsible to comply with the provisions prescribed under the Food and Safety Standards Act, 2006 and other applicable provisions of law.

6. Disputes on assaying

Any dispute in this regard shall be settled by the Disputes Committee for Online Markets set up by the respective market committee under Rule 91-P (1) of the Karnataka Agricultural Produce Marketing (Regulation and Development) Rules, 1968 and the guidelines issued by the Director of Agricultural Marketing under Rule 91-P (7) of the said Rules.

7. Disposal of samples

After the commodity is sold through the e tender process and delivered to the buyer, the requirement to preserve the samples taken would cease. Three lots of samples, namely, the sample maintained by the APMC for display for traders to inspect, the sample maintained by the APMC for dispute resolution and the one retained by the assaying agency for reference may be aggregated and disposed of by Rashtriya e Market Services Private Limited any time after fifteen days of the delivery of the commodity to the buyer. The proceeds realised due to such disposal shall be credited to the account of the said company.

8. Removal of difficulties

Any difficulty in the implementation of this order shall be referred to the Director of Agricultural Marketing, who shall issue clarifications as deemed necessary.

(P.S. Vastrad)
Director

To

1. The Managing Director, Rashtriya e-Market Services Private Limited, Bangalore.
2. Chairmen/Secretary, Agricultural Produce Marketing Committee, Raichur, Chitradurga, Challakere, Gadag, Yadgir.
3. The Additional Director (Enforcement), Department of Agricultural Marketing, Bangalore.
4. The Joint Director (Enforcement), Department of Agricultural Marketing, North Zone, Hubli and South Zone, Bangalore.
5. Deputy Director/Assistant Director, Department of Agricultural Marketing, Raichur, Chitradurga, Gadag, Yadgir.
6. Office copy.

Schedule 1

Assaying Parameters for Moong Whole (Green Gram)

Moong Whole (Green Gram) shall be assayed for the following parameters –

- **Foreign matter**, expressed in per cent: Foreign matter shall mean dust, dirt, stones, lumps of earth, chaff, stem, straw or any other impurity.
- **Admixture**, expressed in per cent: Admixture shall mean any pulses other than the principal pulses.
- **Damaged pulses**, expressed in per cent: Damaged shall mean quantity that is internally damaged or discoloured to such an extent that the damage or discolouration materially affects the quality of the pulse.
- **Weevilled pulses**, expressed in per cent: Weevilled pulses shall mean those pulses that are partially or wholly bored or eaten by weevil or other grain insects.
- **Moisture content**, expressed in per cent.

Format of Sample identity slip to be placed with the petro bulk seal

Sample identity slip	
Name of commodity	Moong Whole (Green Gram)
Market arrived Market/..... Sub market
Date of drawing of the sample	
Name of the farmer/seller	
Lot number	
Name of the Supervisor	
Signature of supervisor with date	
Signature of the Farmer/Seller	

Format of register to be maintained**Form M1****Name of the commodity – Moong Whole (Green Gram)****APMC: , Raichur, Chitradurga, Challakere, Gadag, Yadgir.**

Sl. No.	Date	Quantity/No of bags	Lot number	Name of the farmer /trader	Contact number	Signature of the supervisor

Signature of APMC official**Name:****Date :**

Schedule -4

Physical analysis of Moong Whole (Green Gram)

1. Analysis for Foreign Matter
 - a) Weigh the total sample and note down the weight (W_0).
 - b) Pour the sample on a white enamel plate.
 - c) Separate all foreign matter like dust, dirt, stones, lumps of earth, chaff, stem, straw or other impurities etc. by hand picking.
 - d) Collect all dust, dirt, stones, lumps of earth, chaff, stem, straw or other impurities in a Petri dish and weigh it (W_1).
 - e) The percent of foreign matter is $(W_1/W_0)*100$
2. Analysis for Admixture
 - a) Take the above sample
 - b) Separate the pulses other than the principal pulses.
 - c) Determine the weight of other pulses so separated (W_2).
 - d) The percent of Admixture is $(W_2/W_0)*100$.
3. Analysis for Damaged pulses
 - a) Take the above sample
 - b) Separate pulses that are internally damaged or discoloured to such an extent that the damage or discolouration materially affects the quality of the pulses by hand picking.
 - c) Weigh the damaged pulses (W_3).
 - d) The percent of damaged pulses is $(W_3/W_0)*100$
4. Analysis for Weevilled pulses
 - a) Take the above sample
 - b) Separate pulses that are partially or wholly bored or eaten by weevil or other grain insects
 - c) Weigh the Weevilled pulses (W_4).
 - d) The percent of weevilled pulses is $(W_4/W_0)*100$
5. Moisture:
 - (a) Weigh an appropriate amount of sample in a pre-weighed metal dish (W_0).
 - (b) Dry the sample in a hot air oven at 130°C - 133°C for about two hours.
 - (c) Cool the dish in desiccators and weigh the dish (W_5).
 - (d) The percent difference between the weights of the sample is calculated as per IS 4333: 2002 as $W = \{(W_0 - W_5)/W_0\}$, which is the moisture content of the lot.