

SUBSIDIARY LEGISLATION

To the Gazette of the United Republic of Tanzania, No.7, Vol LVII, dated 13th February, 1976
Printed by the Government Printer, Dar es Salaam, by Order of Government.

GOVERNMENT NOTICE NO.29 published on 13/2/76

THE UNITED REPUBLIC OF TANZANIA



(No. 29 pf 1973)

THE SEEDS (REGULATION OF STANDARDS) ACT, 1973

REGULATIONS

Made under section 5

THE SEEDS REGULATIONS, 1976

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| 1. These Regulations may be cited as the Seeds Regulations, 1976. | Title |
| 2. - (1) In these Regulations, unless the context otherwise requires- “the Act” means the Seeds (Regulation of Standards) Act, 1973; | Interpretation |
| “breeders grade” with respect to seed, means- | |
| (a) seed recognized by the Director of Crop Development of the Ministry of Agriculture being seed of variety that has been produced by the plant breeder responsible for the breeding and maintenance of that variety under conditions which have ensured that the specific characteristics of the variety have been maintained and which provides the source for the initial and recurrent increases of seed of the pedigree grades; or | |
| (b) if of foreign origin, that the seed is certified by a recognized certification agency as being of breeders grade; | |
| “certified grade” with respect to seed, means- | |
| (a) the approved progeny of breeder, foundation, registered or certified seed managed to maintain satisfactory genetic identity and purity the production of which is supervised and approved by the Tanzania Official Certification agency and which provides the source for the initial and recurring increase of seeds; or | |
| (b) if of foreign origin, that the seed is certified by a recognized certification agency or by the Chief Certification Officer as being of | |

certified grade;

“Chief Analyst” means the person appointed or designated by the Minister as the Chief Analyst under section 7 of the Act;

“Chief Certification Officer” means the person for the time being in charge of the Tanzania Official certification Agency;

“Chief Inspector” means the person appointed or designated by the Minister as the Chief Inspector under section 7 of the Act;

“Common grade” with respect to seed, means-

- (a) seed of any kind specified in the First Schedule hereto that has no pedigree status; or
- (b) if of foreign origin, that the seed is certified by a recognized certification agency or by the Chief Certification Officer or by the Chief Inspector as being of common grade;

“foundation grade” with respect to seed, means-

- (a) the approved progeny of breeder seed produced by seed growers authorized by the Tanzania Official Certification Agency for the production of this grade and which has been so managed as to maintain genetic purity and identity which provides a source for the initial and recurring increase of seeds; or
- (b) if of foreign origin, that the seed is certified by a recognized certification agency or by the Chief Certification Officer as being of foundation grade;

“inert matter” includes all seed-like structures from both crop and weed plants and other matter that is not seed;

“inter-agency label” means a label issued by the Chief Certification Officer in respect of seed certified by a recognized certification agency;

“lot designation” means a number, mark, symbol or laboratory test number identifying a seed lot;

“Minister” means the Minister for the time being responsible for agriculture;

“official sample” means a sample of seed drawn by an inspector in the prescribed manner;

“recognized certification agency” means a foreign seed certification agency recognized by the Tanzania Official Certification Agency for the purposes of these Regulations;

“registered grade” with respect to seed, means-

- (a) the approved progeny of breeder, foundation or registered seed produced by seed growers authorized by the Tanzania Official Certification agency for the production of this grade and which has been so managed as to maintain genetic purity and identity which provides a source for the initial and recurring increase of seeds; or

- (b) if of foreign origin, that the seed is certified by a recognized certification agency or by the Chief Certification Officer as being of registered grade;

“Seed lot” means a quantity of seed up to a maximum of 20,000 kilograms for seeds the size of *Triticum* spp. Or larger, including paddy (*Oryza sativa*) and 10,000 kilograms for seeds smaller than *Triticum* spp.;

“speciality seed” means seed of a kind or of a mixture of the kinds, specified in the First Schedule hereto and mixed or attached to any fertilizer, soil, compost, peat, moss, mica, plastic, paper, cellulose or any other matter and the seed itself meets the appropriate grade as defined in the First Schedule;

“sub-standard seed” means seed certified by the Chief Certification Officer as sub-standard seed in accordance with the following conditions-

- (a) the seed forms part of a seed lot which does not meet the normal certification standards other than those affecting the genetic purity or the reputation of certified seed;
- (b) the seed is, in the opinion of the Chief Certification Officer, desirable in case of emergency for the advancement of crop improvement;
- (c) the certificate or labels relating to the seed clearly shows the respect in which the seed does not meet the normal certification standards;
- (d) the certificate or labels relating to the seed shall be stamped or marked “Sub-Standard” with a stamp or other device bearing the emblem of the Tanzania official Certification Agency; and
- (e) notwithstanding the foregoing, the seed shall be regarded as regarded seed of the grade which it represents, that is to say, foundation, registered or certified grade, as the case may be:

Provided that every invoice relating to the sale of sub-standard seed shall bear a stamp, mark or statement indicating clearly that the seed described thereon is sub-standard;

“Tanzania pedigree grade” means a grade that contains one of the words “breeders,” “foundation,” “registered” or “certified” as part of the grade name;

“undesirable seed” means seed that are light, undersized, off-colour, shrunken, immature, damaged, diseased, injured, sprouted or frosted, and include-

- (a) in the case of oats, double seed;
- (b) in the case of barley, seeds with excess awns;
- (c) in the case of flax, scaly or papery seeds;
- (d) in the case of alfalfa or clover, off-colour seeds;
- (e) in the case of sweet clover, seeds covered by hulls;
- (f) in the case of chaffy grasses, unbroken spikelets.

(2) For the purposes of these Regulations references to “pure seed” shall include references to all seeds of each kind and variety or of each kind under consideration present in excess of five per centum of the whole seed lot:

Provided that in certain circumstances kinds and varieties or kinds present to the extent of five *per centum* or less of the whole seed lot may be considered pure seed, as for example, kinds and varieties or kinds shown on a label as components of a mixture in quantities of five *per centum* or less.

3. Seed for experimental purposes, including breeding, imported or produced by persons or organizations approved in that behalf by the Chief Certification Officer shall be exempt from the operation of the provisions of the Act and of these Regulations. Exemption

Standards: First
Schedule

4. The grades, the grade names and the standards for the kinds of seed specified in the tables of grade standards set out in the First Schedule hereto shall respectively be those described in respect of each kind of seed in the appropriate table of grade standards.

Additional
requirements as
respects
standards

5.- (1) In addition to the standards prescribed by regulation 4, the requirement prescribed by paragraph (2) and (3) of this regulation shall apply with respect to the standards of the appropriate kind of seed specified in the tables of grade standards set out in the First Schedule hereto.

(2) For every kind of seed-

- (a) the seed shall not contain any prohibited noxious weed seeds;
- (b) if graded with the name of Tanzania pedigree grade, the seed shall not be mixed with any other seed;
- (c) each seed lot sold as Foundation seed, Registered seed or Certified seed-
 - (i) shall be uniform and sound;
 - (ii) shall not be heat-damaged or be musty or contain moisture in excess of 13% or such greater percentage as the Chief Certification Officer may, from time to time, prescribe for seed of a specified kind;
 - (iii) shall be free from undesirable seeds and inert matter within the percentage allowed under these Regulations; and
 - (iv) shall not be discoloured by weathering, staining or other factors to an extent that will impair its appearance or utility.

(3) Whenever seed is sold or offered for same, that seed shall be subjected to a test or tests to determine the percentage of germination required to be shown on the label thereof and the sale shall take place within seven months (not including the month shown on the label) from the date on which the last test was performed. The Chief Certification Officer may from time to time prescribe longer or shorter periods for re-testing.

Restrictions as
to use of variety
names

6.- (1) No person shall mark or label a package of seed with a variety name unless that seed is of the variety to which the variety name refers.

(2) No person shall modify a variety name of any kind of seed for any purpose whatsoever.

(3) No person shall label a package of a mixture of seed, other than a mixture of lawn or turf grass seed, containing seed of the kinds specified in Tables 7, 8 and 9 of the First Schedule hereto, with a variety name unless-

- (a) he is authorized in that behalf by the Chief Inspector; and
- (b) all of the seed of the kind to which the variety name refers is-
 - (i) one of the Tanzania pedigree grades; or
 - (ii) in the case of a mixture made in the establishment of a person authorized to apply official labels or inter-agency certification label pursuant to paragraph (1) of regulation 19, of pedigree grade.

- 7.- (1) The information required by these Regulations on the label or outside of a package of seed shall be shown conspicuously, legibly and indelibly in Swahili or English or in both English and Swahili, and shall appear on one exposed face of the package or label and shall be of a size and colour that can be easily read.
- (2) No label shall contain any incorrect or misleading information, mark or brand name that might be construed as a variety name.
- (3) For purposes of these Regulations, the Tanzania Seed Seal and the label colours described under this paragraph shall be used as follows-
- (a) the Tanzania Seed Seal shall be applied on all labels relating to seed of Foundation, Registered or Certified grade;
- (b) in the case of a label on a package containing Foundation seed, *white* shall be used, with the word "Foundation" conspicuously applied across one side of the label; the other side of the label shall be *white*;
- (c) in the case of a label on a package containing Registered seed, *purple* colour shall be used, with the word "Registered" conspicuously applied across one side of the label; the other side of the label shall be *purple*;
- (d) in the case of a label on a package containing Certified seed, *blue* colour shall be used, with the word "Certified" conspicuously applied across one side of the label; the other side of label shall be *blue*;
- (e) in the case of a label on a package containing common seed, the label shall be *brown*.
- (4) The Tanzania Seed Seal referred to in paragraph (3) of this regulation shall have printed thereon the words "Tanzania Certified Seed" and shall be of such material, shape, size and colour as the Minister may approve.

Marking and labeling

- 8.- (1) Every package of seed marked with a grade name shall have on its label a statement as to the percentage of germination and date on which the germination test was completed.
- (2) Every package of seed shall have a label with the weed seed content thereof (in percentage or number of seeds per kilogram, as the case may require).
- (3) every package of seed weighing more than 2,000 grams shall have a label with the lot designation of that seed.
- (4) Whenever seed is treated with a poisonous material it shall be thoroughly stained with a conspicuous contrasting colour to show that the seed has been so treated.
- (5) When seed has been treated with a poisonous material, the container of the seed shall be marked or have attached thereto a conspicuous label reading as follows:- (Name of poisonous material, (substance) in bold letters in Swahili and English:)

General labeling requirements

"*POISONOUS*: DO NOT USE AS FOOD, FEED OR OIL. This has been treated with.....
".

- (6) Seed for sale shall be packed in packages unless-
- (a) it is of a grade other than one of the Tanzania pedigree grades and is

- accompanied by a shipping label or invoice setting out the information required to be stated on the label of a package of that seed; or
- (b) its is delivered in bulk in a bulk container that is labeled in accordance with these Regulations; or
- (c) (i) it is wheat, oats, barley, rye, flax, maize, sorghum, millet, rice or any other prescribed kind of seed, going to a grain terminal or market for food, feed or oil;
- (ii) it is of one of the Tanzania pedigree grades and is accompanied by a statement setting out the quantity of seed, the name and address of the purchaser and the information required to be stated on the label of that seed, two copies of which shall have been forwarded to an officer of the Tanzania Official Certification Agency having jurisdiction within the area in which the seed is sold; and
- (iii) it is sold for seeding purposes by a person who is authorized to apply official labels or inter-agency certification labels pursuant to regulation 19.

(7) Seed labels shall be in the form appearing under this paragraph and shall contain the information provided for in that form.

SEED ANALYSIS LABEL

Kind of Seed:	Variety:	Grade	Lot No:	Weight
Purity:	% Weed Seed	% Insert % Matter:	Other crop % Seeds:	
Germination:	% Hard Seed:	% total Germ:	% <i>Date Tested</i> : Day Mon. Year	

Restricted Noxious weed seed:
Name and Number per kilogram:
Where grown:
For Maize and Tree and Shrub Seeds:
Grown at height above sea level:

Seed colour	Cross:	Single Cross: Double Cross: Triple Cross: Open Pollinated: Composite: Address:
Recommended for	Altitude in metres	
Moisture % Labelled by:		

Application of labeling requirements in respect of field crops, and exemptions

- 9.- (1) Subject to the provisions of paragraph (2) of this regulation, the labeling requirements prescribed under regulations, 10, 11, 12, 13, 14 and 15 shall apply to all the kinds of seed specified in those regulations.
- (2) Nothing in regulation 10, 11, 12, 13, 14 or 15 shall apply to seeds sold by a wholesaler to a sub-wholesaler for resale and re-labelling if the information required under any of those regulations is shown on the invoice accompanying the sale or on a label.

Labeling of seeds specified in Tables 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14,

- 10.- (1) Every package of seed, offered for sale, of the kinds specified in Tables 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, or 15, 18 and 19 of the first Schedule hereto, other than seed that is sweet corn (or sweet maize) or garden beans shall be labeled with the following information-

- (a) the name and address of the seller;
- (b) the name of the kind of the seed;
- (c) the name of the variety of the seed;
- (d) the name of the grade of the seed;
- (e) the day, month and year of germination test;
- (f) in the case of seed that is imported, the name of the country of production;
- (g) in the case of seed that is a blend of two or more varieties, the name of each of the component varieties.

(2) For the purpose of paragraph (21) of this regulation the following are hereby prescribed as the kinds of seed:-

- (a) "open pollinated", being any seed formed by means other than controlled and selective breeding;
- (b) "varietal cross", being seed of the first generation of a cross between two named open pollinated varieties, or an open pollinated variety and a hybrid;
- (c) "top cross", being seed of the first generation of a controlled cross between a named open pollinated variety and an inbred line;
- (d) "hybrid", being seed of the first generation of a cross between two or more inbred lines or their combination including single crosses, double crosses and three-way crosses;
- (e) "composite variety", being seed derived from selected strains which have been allowed to freely inter-pollinate;
- (f) "inbred line", being seed derived from a relatively homogeneous line produced by inbreeding and selection;
- (g) "synthetic variety", is seed formed through a combination of several intercrosses of genotypes which have been previously tested for their combining ability;
- (h) "single cross hybrid", is seed obtained by crossing two unrelated homozygous strains to obtain uniform and enhanced trait expression in the first generation;
- (i) "a three way cross hybrid", is seed obtained by crossing three unrelated homozygous stains to obtain uniform and enhanced trait expression in the first generation heterozygote;
- (j) "a double cross hybrid", is seed obtained by crossing four unrelated homozygous strains or two unrelated single cross hybrids to obtain uniform and enhanced trait expression in the first generation heterozygote.

11. Every package of a mixture of seeds, offered for sale, of the kinds specified in the First Schedule hereto shall be labeled with the following information-

- (a) the name and address of the seller;
- (b) the name of the grade of the seed;
- (c) the name and percentage by weight of each kind in the mixture, in order of its predominance;
- (d) the name of the variety of each kind in the mixture.

12. Every package of seed, offered for sale, of the kinds specified in the First Schedule hereto and of seed that is sweet maize, garden peas and garden

beans shall be labeled with the following information-

- (a) the name and address of the seller;
- (b) the name of the kind of the seed, roots or cuttings, as the case may be;
- (c) the name of the variety of the seed, roots or cuttings, as the case may be;
- (d) if sold or offered for sale on the basis of grade, the name of the grade of the seed, roots or cuttings, as the case may be;
- (e) if not sold or offered for sale on the basis of a grade of the seed, root or cutting-
 - (i) the date on which the seed, root or cutting was tested for germination, and
 - (ii) if the percentage of germination is below the minimum prescribed for the lowest grade, the percentage of germination of that kind of seed, root or cutting.

13. Every package of onion sets and multiplier onions offered for sale shall be labeled with the following information-

- (a) the name and address of the seller;
- (b) the term "onion sets" or "multiplier onions", as the case may be;
- (c) the name of the grade of the onion sets and multiplier onions as set out in Table 17 of the First Schedule hereto.

Labeling
onion sets
and
multiplier
onions

14. Every package of seed, offered for sale, of a kind specified in Tables 8 and 9 of the First Schedule hereto shall be labeled with the following information-

- (a) the name and address of the seller;
- (b) the name of the kind of the seed;
- (c) the name of the grade of the seed;
- (d) the name of the variety of the seed;
- (e) the name of the country of production;
- (f) in the case of seed that is sweet clover seed or a mixture containing 5% or more sweet clover seed, the words "white blossom" or "yellow blossoms" to indicate the kind of sweet clover, or "mixed white and yellow blossoms".

Labeling
forage crop
seed

15.- (1) Every package of a mixture of forage seeds offered for sale, of the kinds specified in Tables 8 and 9 of the first Schedule hereto shall be labelled with the following information-

- (a) the name and address of the seller;
- (b) the name of the grade of the seed;
- (c) the name and percentage of each kind of seed which singly constitutes 5% or more, or in the case of sweet clover 1% or more, by weight of the mixture;
- (d) the percentage of weight of the kinds of seed of the mixture not stated on the label pursuant to sub-paragraph © of this paragraph preceded by the words "other crops":

Labeling
mixtures of
seeds
specified in
Tables 8 and
9 of First
Schedule

Provided that the name and percentage of each kind of seed in a package that singly constitutes 1% or more by weight of the mixture, may be marked on the package.

(2) The information stated on a package or label pursuant to sub-paragraphs

(b), (c) and (d) of paragraph (1) of this regulation shall be on the same face of the package or label and shall be of the same type of printing or lettering.

Official labels

16. - (1) Every package of seed produced in Tanganyika and graded with the name of one of the Tanzania pedigree grades shall be labeled with a official label authorized by the Chief Certification Officer.

(2) The official label referred to in paragraph (1) of this regulation shall contain the following information-

- (a) the name of the kind of the seed;
- (b) the name of the variety of the seed;
- (c) the name of the grade of the seed;
- (d) the crop certificate number;
- (e) the serial number of the label;
- (f) the seed certificate number;
- (g) the lot designation of the seed.

(3) The labels referred to in paragraph (1) of this regulation shall be supplied only to those persons applying for these labels and furnishing an inspector with-

- (a) a declaration of the grower declaring that the seed to which the labels are to be applied is derived from the crop in respect of which the crop registration certificate or crop certificate specified in the declaration applies; and
- (b) a declaration of the applicant, if the applicant is not the grower, declaring that the seed referred to in the grower's declaration is the seed to which the labels are to be applied and that the seed has not become mixed or contaminated while in the possession of the applicant.

Inter-agency labels

17. - (1) Every package of seed of foreign origin graded with the name of the Tanzania pedigree grades shall be labeled with an inter-agency certification label authorized by the Chief Certification Officer.

(2) The inter-agency certification label referred to in paragraph (1) of this regulation shall contain the following information-

- (a) the name of the kind of the seed;
- (b) the name of the variety of the seed;
- (c) the name of the grade of the seed;
- (d) the name of the country of production;
- (e) the serial number of the label;
- (f) the seed certificate number;
- (g) the lot designation of the seed.

(3) Inter-agency certification labels referred to in paragraph (1) of this regulation shall be supplied only if the person applying for these labels furnishes an inspector with-

- (a) evidence satisfactory to the inspector that the imported seed is in containers bearing labels of a foreign certification agency acceptable to the Chief Certification Officer;
- (b) a declaration of the applicant declaring that the seed has not become

- mixed or contaminated while in the possession of the applicant; and
(c) full particulars of the information on the labels of the foreign certification agency.

General provisions with respect to official and inter-agency labels

18. - (1) An official label or inter-agency certification label shall only be applied to containers for which the labels were issued.
- (2) Except where the Chief Certification Officer otherwise directs, an official label or inter-agency certification label shall not contain anything other than the information required by regulation 16 or 17.
- (3) An official label or inter-agency certification label shall be applied to a container of seed only by an inspector, or in the case of seed or one of the Tanzania pedigree grades, by or under the direction of a person authorized to do so pursuant to regulation 19

Chief Certification Officer may authority use of official labels or inter-agency certification labels in certain circumstances

19. (1) The Chief Certification Officer may authorize any person to apply official labels or inter-agency certification labels to seed of one of the Tanzania pedigree grades, if that person-
- (a) has seed processing equipment and facilities adequate for the proper processing of seeds;
- (b) has adequate facilities to maintain the identity of different seed lots; and
- (c) will return to the Chief Certification Officer on request by him any labels supplied pursuant to regulation 16 or 17.
- (2) Where the Chief Certification Officer or an inspector authorized by him is of the opinion that the person authorized to apply official labels or inter-agency certification labels pursuant to paragraph (1) of this regulation is-
- (a) not operating his establishment in such a manner as to assure the proper processing of seed; or
- (b) not complying with the provisions of regulation 16, 17, 18 or of this regulation,

the Chief Certification Officer may withdraw the authority granted pursuant to paragraph (1) of this regulation

Seed crop inspection

- 20.- (1) Crop inspection of seed-field shall be confined to crops for the production of seed (of the Tanzania pedigree grades) approved by the Chief Certification Officer for inspection.
- (2) Every application for a crop inspection of a seed-field shall be made in the form prescribed by the Chief Certification Officer before the date specified for inspection in the application form.
- (3) The crop inspection of a seed-field may be refused where application is received too late for the Chief Certification Officer to make satisfactory arrangements for the inspection.

- (4) For the purpose of inspection of seed crop, the Land and Field Standards

applicable shall be those adopted by the Tanzania Official Certification Agency.

21. - (1) For the purpose of these Regulations, unless the context otherwise requires, the following expressions shall have the meaning hereby assigned to them- Sampling

“primary sample” means each probe or each handful or seed drawn from a seed lot as a sample. When a seed lot is sampled either in containers or in bulk, several individual samples are drawn from different containers or from different places in the bulk;

“composite sample” means a combination of primary sample placed in a suitable container. A composite sample is usually larger than the size of sample required for test and it must be placed in a container of such material and size and in such a manner as to ensure that the seed is not mixed with any other matter;

“submitted sample” means a composite sample of a size appropriate for tests. This sample is submitted to a testing station for quality tests;

“working sample” means a portion of a submitted sample on which a quality test is made.

(2) Samples of seed for testing or analysis shall be taken by an inspector in accordance with the requirements prescribed under this regulation.

(3) Except where an inspector requires a larger sample of any kind of seed in any case where he considers it necessary for satisfactory testing, re-testing or analysis, the size of each sample shall comply with the particulars set out in the table appearing under this sub-paragraph, according to the kind of seed.

TABLE

(SAMPLE WEIGHTS IN GRAMMES – FOR GRADES

	<i>Minimum weight for submitted sample</i>	<i>Minimum weight for purity analysis</i>	<i>Minimum weight for examination for noxious weed seed and foreign matter</i>
A CEREAL CROPS:			
<i>Maize Zea mays</i>	1,000	900	1,000
<i>Wheat Triticum destivum</i>	1,000	120	1,000
<i>Triticum durum</i>	1,000	120	1,000
	<i>Minimum</i>	<i>Minimum</i>	<i>Minimum</i>

	<i>weight for submitted sample</i>	<i>weight for purity analysis</i>	<i>weight for examination for noxious weed seed and foreign matter</i>
<i>Sorghum Sorghum vulgare</i>	900	90	900
<i>Rice Oryza sativa</i>	400	40	400
<i>Barley Hordeum vulglare</i>	1,000	120	1,000
<i>Millet Eleusine carocana</i>	90	9	90
<i>Setaria italica</i>	90	9	90
B GRAIN LEGUME AND PULSE CROPS:			
<i>Cow peas Vigna unguiculata (V. senesis, V. Catiag)</i>	1,000	400	1,000
<i>Beans Phaseolus mungo</i>	1,000	700	1,000
<i>Phaseolus vulgaris – Broad beans</i>	1,000	120	1,000
<i>Phaseolus aureua – Mung bean</i>	1,000	250	1,000
<i>Phaseolus angularis</i>	1,000	400	1,000
<i>Banavist Beans Dolichos Lablab</i>	1,000	700	1,000
<i>Hyaxinth Beans Dolichos Lablab</i>	1,000	900	1,000
<i>Sword Bean Canavalia emsiformis</i>	1,000	400	1,000
<i>Pigeon pea Cajanus Cajan</i>	1,000	1,000	1,000
<i>Chickpea Cicer Orietinum</i>	1,000	1,000	1,000
<i>Broad bean Vicia faba</i>	1,000	70	1,000
<i>Pea Lathyrus spp.</i>	700	700	700
<i>Field and Garden Pea Pisum sativum</i>	1,000	900	1,000
<i>Bambara nut Voandzeia subterranean</i>	1,000	400	1,000
<i>Greengram Vigna aureus</i>	1,000	400	1,000
<i>Blackgram Vigna mungo</i>	1,000	400	1,000
C OIL CROPS:			
<i>Soya beans Glycine soya</i>	1,000	500	1,000
<i>Groundnut Arachia hypogeea</i>	1,000	900	1,000
<i>Sesame Sesamum indicum orientale</i>	70	7	70
<i>Sunflower Helianthus unnus</i>	1,000	200	1,000
<i>Sunflower Carthamus tinctorius</i>	900	90	900
<i>Castor Ricinus cammunis</i>	1,000	900	1,000
D FIBRE CROPS:			
<i>Cotton Gossypium spp</i>	1,000	350	1,000
<i>Kenaf Hibiscus canabinus</i>	700	70	700
<i>Hibiscus sabdariffa</i>	700	70	700
E DRUG CROPS:			
<i>Pyrethrum Chysanthemum cinerarieafolium</i>	100	10	100
<i>Tobacco Nicotiana tobacum</i>	25	0.5	25
<i>Nicotiana rustica</i>	25	0.5	25
F VEGETABLE CROPS INCLUDING ROOT VEGETABLES:			
<i>Tomato Lycopersicon esculentun</i>	15	7	10
<i>Onion Allium cepa</i>	80	8	80
	<i>Minimum</i>	<i>Minimum</i>	<i>Minimum</i>

	weight for submitted sample	weight for purity analysis	weight for examination for noxious weed seed and foreign matter
Egg plant <i>solanum melongena</i>	150	15	150
Okra <i>Hibiscus esculentum</i>	1,000	140	1,000
Cabbage <i>Brassica oleraces</i> Var. <i>capitata</i>	100	10	100
Cauliflower <i>Brassica oleracea</i> var. <i>botrytis</i>	100	10	100
Sprouting Broccoli <i>Brassica oleraces</i> var <i>italica</i>	100	10	100
Brussels Sprout <i>Brassica oleracea</i> var. <i>germifera</i>	100	10	100
Chinese Cabbage <i>Brassica campestris</i> subvar. <i>Pekinensis</i>	40	4	40
Chinese Cabbage <i>Brassica campestris</i> subvar. <i>Chinensis</i>	40	4	40
Pepper <i>Capsicum</i> spp.	150	15	150
Celery <i>Apium graveolens</i>	25	2	25
Cucumber <i>cucumis sativus</i>	150	70	150
Squash Pumpkin <i>cucubita</i> spp	1,000	700	1,000
Lettuce <i>Lectuca sativa</i>	30	3	30
Spinach <i>Spinach oleracea</i>	250	25	250
Carrot <i>Daucus cator</i>	30	3	30
Turnip <i>Brassica cempetris</i> suvar. <i>Rapa</i>	70	7	70
Watermelon <i>Citrullusn vulgaris</i>	1,000	250	1,000
Muskmelon <i>Cucumis melo</i>	150	15	150
Radish <i>Raphanus sativus</i>	300	30	300
Swiss Chard <i>Beta vularis</i> 1, var, <i>gilla</i>	500	50	500

G GRASSES, FORAGE CROPS AND GREED MANURE:

<i>Pennisetum Clandestinum</i>	100	10	100
<i>Desmodium</i> spp.	50	5	50
<i>Glycine javanica</i>	50	5	55
<i>Medicago saliva</i> Lucerne – Alfalfa	50	5	55
<i>Phaseolus atropurpure</i>	75	7	75
<i>Chloris gayana</i>	25	1	20
<i>Dolichos</i> spp.	75	7	75
<i>Sylobanthis gracilis</i>	25	5	25
<i>Hypantheris rhufa</i>	30	3	30
<i>Cenhrus ciliaris</i>	25	5	25
<i>Eragrostis etff</i>	25	5	25
<i>Eragrostis trichodes</i>	25	5	25
<i>Euchleana mecinana</i>	30	3	30
<i>Digitaria smutsii</i>	25	2	20
<i>Eragrostis chloromelas</i>	25	2	20
<i>Eragrostics curvula</i>	30	3	30
<i>Bothriochloa insulpta</i>	30	3	30
<i>Panicum maximum</i>	25	2	20
<i>Panicum antidotale</i>	25	2	20
<i>Panicum maximum</i> var, <i>trichoglume</i>	25	2	25
<i>Panicum coloratum</i>	25	2	25
<i>Panicum obtusum</i>	25	2	20
<i>Panicum virgatum</i>	30	3	30
<i>Melinis minufilora</i>	25	0.5	5
<i>Lupune</i> spp.	1,000	450	1,000
<i>Pannisetum typhoides</i>	60	6	60
<i>Seteria splendida</i>	90	9	90
<i>Setera sphacelate</i>	90	9	90
<i>Sorghum alum</i>	700	20	200

Minimum Minimum Minimum

	<i>weight for submitted sample</i>	<i>weight for purity analysis</i>	<i>weight for examination for noxious weed seed and foreign matter</i>
<i>Pennisetum purpureum</i>	60	6	60
<i>Sorghum sudanense</i>	250	25	250
<i>Trifolium repens</i>	25	2	20
<i>Ornithopusstivus</i>	90	9	90
<i>Crotalaria intermedia</i>	150	15	150
<i>Crotalaria juncea</i>	700	70	700
<i>Crotalaria lanceolata</i>	70	7	70
<i>Crotalaria mueronate/Striata</i>	150	15	150
<i>Crotalaria spectabilis</i>	350	35	350
<i>Cynodon dactylon</i>	25	1	10
<i>Themeda triandra</i>	25	2	25
<i>Eragrostis superba</i>	25	2	25
<i>Cynodon plectostachyus</i>	25	1	10
<i>Brachiaria brizantha</i>	30	3	30
<i>Trysacum laxum</i>	30	3	30
<i>Brachiaria ruziziensis</i>	30	3	30
<i>Centrosema pubescens</i>	150	15	150
<i>Pueraria phaseoloides</i>	350	35	350
<i>Stylosanthes humilis</i>	100	10	100
<i>Stylosanthes mucronata</i>	50	5	50
<i>Clitoria ternatea</i>	100	10	100

H ROOT CROPS AND SPICES:

Potato. (Irish) *Solanum tuberasum*.
Garlic.
Ginger
Cardamon

- (4) Notwithstanding the provisions of paragraph (3) of this regulation, if the sample is required to check only the percentage of germination of seed of any of the kinds specified under this paragraph, the inspector may require that the sample be of the following size according to the kind of seed-
- garden beans (except broad and runner beans), garden peas and sweet corn (or sweet maize) – 115 grams;
 - beet, mangel, sugar beet, sugar cane and swiss chard – at least 30 grams.
- (5) Where a seed lot-
- of sweet maize including hybrid varieties; or
 - of a variety other than a hybrid variety of garden beans except broad or runner beans, garden peas or a kind specified in Table 15, 18 or 19 of the First Schedule hereto,

is packed in individual containers each of which contains a quantity of seed not exceeding the size of sample prescribed for that kind of seed in paragraph (3) of this regulation, an inspector may require a smaller size of sample than that prescribed under paragraph (3) but not less than 400 seeds.

22. When sampling seed lots in bulk, that is to say, in heaps, bins, wagons and

the like, or streams of seeds during any processing operation, the following intensity sampling intensity shall be taken as the minimum requirements-

Not exceeding 500 kg.- five primary samples shall be taken except that for small lots not exceeding 50 kg. Three or four samples may be taken.

Exceeding 500 kg. – but not exceeding 3,000 kg. – one primary sample for every 300 kg. Shall be taken, so however, that not less than five primary samples shall be taken.

Exceeding 3,000 kg. but not exceeding 20,000 kg. – one primary sample for every 500 kg. shall be taken, so however, that not less than 10 primary samples shall be taken.

Seed in bulk shall be sampled at random locations and the samples shall be drawn from varying depths. For seed lots in bags or other containers of similar size samples shall be taken at random locations and the following intensity shall be taken as the minimum requirements:-

Not exceeding 5 containers – a sample shall be taken from each container and the aggregate number of primary samples shall not be less than five.

Exceeding 5 containers but not exceeding 30 containers – a sample shall be taken in every 3 containers and the aggregate number of primary samples shall not be less than five.

Exceeding 30 containers – a sample shall be taken in every 5 containers and the aggregate number of primary samples shall not be less than ten.

23.- (1) The fees prescribed in the Second Schedule hereto shall be payable in respect of the services specified in the said Schedule.

Fees

(2) The fee for any service shall be paid at the time the application for the service is made.

(3) The Minister may, by directions in writing or by notice in the *Gazette*, remit in whole or in part any fee payable by any persons in respect of any service, if he is satisfied that it is in the public interest so to do.

24. The methods and procedures for the testing of seeds, including the limits of variability, as set out in the Third Schedule hereto are hereby prescribed for the purposes of the Act and these Regulations

Methods and procedures for testing seed and limits of variability

FIRST SCHEDULE

(Regulations 4)
TABLES OF GRADE STANDARDS
TABLE 1

Applicable to:

- (a) Wheat including hybrid – *Triticum aestivum* L. and
- (b) Wheat, durum – *Triticum durum* Desf.

<i>Factor</i>	<i>Standards for Each Grade</i>		
	<i>Foundation</i>	<i>Registered</i>	<i>Certified</i>
	%	%	%
Pure Seed (Minimum)	98.0	98.0	98.0
Total Weed Seed (Maximum) ... ..	.10	.10	.20
Other Crop Seed (Maximum)	2 per kg.	2 per kg.	4 per kg.
Inert Matter (Maximum))	2.0	2.0	2.0
Other Varieties (Maximum) 1	0.5	10	50
Prohibited Noxious Weed (Maximum) 2	None	None	
Restricted Noxious Weeds (Maximum) 2	4 per kg.	4 per kg	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germination (Minimum)	85.0	85.0	85.0
Loose Smut – <i>Ustilago nuda</i> (Minimum))	0.5	2.0	4.0

- (1) Other varieties shall not include variations which are characteristic of the variety.
- (2) As defined under the Weed Seed Order, 1976,

TABLE 2

Applicable to:

- (a) Barley – *Hordeum vulgare* L.H. distichon L.
- (b) Oat – *Avena sativa* L.A. nuda L.

<i>Factor</i>	<i>Standards for Each Grade</i>		
	<i>Foundation</i>	<i>Registered</i>	<i>Certified</i>
	%	%	%
Pure Seed (Minimum)	98.0	98.0	98.0
Total Weed Seed (Maximum) ... ..	.10	.10	.20
Other Crop Seed (Maximum)	2 per kg.	2 per kg.	4 per kg.
Inert Matter (Maximum))	2.0	2.0	2.0
Other Varieties (Maximum) 1 ... ..	.05	10.	.50
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	4 per kg.	4 per kg	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germination (Minimum)	85.0	85.0	85.0
Loose Smut of Barley <i>Ustilago nuda</i> (Maximum)	1.0	2.0	4.0

- 1. Other varieties shall not include variations which are characteristic of the Variety.
- 2. As defined under the Weed Seed Order, 1976,

TABLE 3

Applicable to:

Rice (Paddy) – *Oryza sativa*

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	98.0	98.0	98.0
Total Weed Seed (Maximum) ... ..	.10	.10	.20
Other Crop Seed (Maximum)	2 per kg.	2 per kg.	4 per kg.
Inert Matter (Maximum))	2.0	2.0	2.0
Other Varieties (Maximum) 1 ... ..	.05	10.	.50
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	None	4 per kg	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germination (Minimum)	80.0	80.0	80.0
Blast – <i>Pyricularia Oryzae</i> (Maximum)	5.0	5.0	8.0
Bacterial Leaf Blight – <i>Xanthomonas Oryzae</i> (Maximum) ...	2.0	2.0	5.0
White Tip Nematode – <i>Aphelenchoides Besseyi</i> (Maximum)	0.0	0.0	2.0

1. Other varieties shall not include variations which are characteristic of the Variety.
2. As defined under the Weed Seed Order, 1976,

TABLE 4

Applicable to:

Sorghum (includes hybrid sorghum) – *Sorghum vulgare Pers.* And *S. alnum Parodi* and *Sorghum vulgare var.* (Piper) Hitch.

Factor	Standards for Each Grade		
	Foundation	(3)	Certified
	%		%
Pure Seed (Minimum)	97.0		97.0
Total Weed Seed (Maximum) ... ..	.20		.50
Other Crop Seed (Maximum)	None		.10.
Inert Matter (Maximum))	3.0		3.0
Other Varieties (Maximum) (1) ... ..	.10		.20
Prohibited Noxious Weeds (Maximum) (2)	None		None
Restricted Noxious Weeds (Maximum) (2)	None.		4 per kg
Moisture (Maximum))	13.0		13.0
Germination (Minimum)	75		75

1. Other varieties shall not include variations which are characteristic of the Variety.
2. As defined under the Weed Seed Order, 1976,
3. There shall be no Registered Grade for Hybrid Sorghum

TABLE 5

Applicable to:

Maize field including open-pollinated and hybrid and sweet maize – *Zea mays* L

Note: A Registered Grade of open-pollinated Maize may be prescribed by the Certification Agency.

Factor	Standards for Each Grade		
	Foundation	(3)	Certified
	%		%
Pure Seed (Minimum)	99.0		99.0
Total Weed Seed (Maximum)	None		None
Other Crop Seed (Maximum)	None.		None
Inert Matter (Maximum))	1.0		1.0
Other Varieties (Maximum) 1	None		.50
Prohibited Noxious Weeds (Maximum) 2	None		None
Restricted Noxious Weeds (Maximum) 2	None		4 per kg
Moisture (Maximum))	13.0		13.0
Germination (Minimum)	85.0		85.0

1. Other varieties shall not include variations which are characteristic of the Variety.
2. As defined under the Weed Seed Order, 1976,
3. Including Foundation Single Crosses of Maize.

TABLE 6

Applicable to:

Soyabean – *Glycine max.*

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	97.0	97.0	97.0
Total Weed Seed (Maximum)	None	None	0.5
Other Crop Seed (Maximum)	None	None.	1 per kg.
Inert Matter (Maximum)	3.0	3.0	3.0
Other Varieties (Maximum) 1	0.10	0.20	0.50
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	None	None	None
Moisture (Maximum))	13.0	13.0	13.0
Germination (Minimum) and Hard Seeds	75.0	75.0	75.0
Leaf spot – <i>Ascochyta Sojaecola</i> (Maximum)	1.0	2.0	4.0
Anthracnose – <i>Glomerella Glycines</i> (Maximum)	1.0	2.0	4.0
Charcoal Rot – <i>Macrophomina Phaseoli</i> (Maximum)... ..	1.0	2.0	4.0

1. Other varieties shall not include variations which are characteristic of the Variety.
2. As defined under the Weed Seed Order, 1976,

TABLE 7

Applicable to:

- (a) Millet, foxtail – *Setaria italica* (L.) Beauv
- (b) Millet, Japanese – *Echinochloa crusgalli* (L.) Beav. Var. *frumentacea* (Roxb Wight
- (c) Millet, pearl – *Pennisetum glaucum* (L.) R. Br.
- (d) Millet proso – *Panicum miliaceum* L.
- (e) Millet, Bullrush – *Eleusine carocana*
- (f) Millet, Finger – *Setaria italica*

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	97.0	97.0	97.0
Total Weed Seed (Maximum) ... ..	.50	.50	.50
Other Crop Seed (Maximum)	0.05	0.05	.10
Inert Matter (Maximum))	3.0	3.0	3.0
Other Varieties (Maximum) 1	None	.10	1.0
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	4 per kg.	4 per kg	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germination (Minimum)	70.0	70.0	70.0

- 3. Other varieties shall not include variations which are characteristic of the Variety.
- 4. As defined under the Weed Seed Order, 1976,

TABLE 8

Applicable to:

- (a) Alfalfa – *Medicago sativa* Lucerne.
- (b) Clover, White, incl. Ladino – *Trifolium repens*
- (c) Glycine – *Glycine javanica*
- (d) Lance Crotalaria – *Crotalaria lanceolata*.
- (e) Showy Crotalaria – *Crotalaria spectabilis*
- (f) Sslender Crotalaria – *Crotalaria intermedia*
- (g) Striate Clotalaria – *Crotalaria mucronata* var. *striata*
- (h) Sunn Crotalaria - *Crotalaria juncea*
- (i) Kudzu – *Pueraria phaseloides*
- (j) Lupines – *Lupine spp.*
- (k) Seradella – *Ornithopus sativus*.
- (l) Tall Tick clover (Kuru vine) – *Desmodium spp.*
- (m) Siratro – *Phaseolus atropurpureus*.

Factor	Standards for Each Grade		
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	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	98.0	98.0	97.0
Total Weed Seed (Maximum)10	.10	.30
Other Crop Seed (Maximum) ... ..	.05	.10	.50
Inert Matter (Maximum))	2.0	2.0	3.0
Other Varieties (Maximum) 1 ... ..	.05	.10	.30
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	4 per kg.	4 per kg	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germinable Seed (Minimum)	50.0	50.0	50.0
Germination and Hard Seed (Minimum)3	80.0	80.0	80.0

1. Other varieties shall not include variations which are characteristic of the Variety.
2. As defined under the Weed Seed Order, 1976,
3. "Hard Seeds" as defined in the Rules of the International Seed Testing Association.

TABLE 9
STANDARDS FOR EACH PEDIGREED GRADE*

Applicable to:
Forage Grasses and Crops

Kind	Per cent Inert Matter		Percent Weed Seed		Percent Pure Seed		Percent Germination
	Foundati on and Register ed	Certif ied	Foundati on and Register ed	Certified	Foundati on and Register ed	Certified	Foundati on, Regist ered and Certified
Pennisetum clandestinum	4.0	5.0	.20	.50	96.0	95.0	75
Rhodes Grass – <i>Chloris gayana</i>	35.0	40.0	.20	.50	65.0	60.0	65
<i>Dolichos</i> spp.	10.0	12.0	.20	.50	00.0	88.0	75
Stylo – <i>Stylosanthes gracilis</i>	3.0	4.0	.20	.50	97.0	96.0	65
<i>Hypantheris rhufa</i>	5.0	7.0	.20	.50	95.0	93.0	75
African foxtail grass – <i>Cenchrus ciliaris</i>	10.0	15.0	.20	.50	90.0	85.0	65
Teff Grass – <i>Eragrostis teff</i>	2.0	3.0	.20	.40	98.0	97.0	75
Sand Lovegrass – <i>Eragrostis trichoides</i>	2.0	3.0	.20	.50	98.0	97.0	75
<i>Euchleana mecinana</i>	8.0	10.0	.20	.50	92.0	90.0	75
<i>Digitaria smutsii</i>	3.0	5.0	.20	.50	97.0	95.0	65
<i>Eragrostis chloromelas</i>	2.0	3.0	.20	.50	98.0	97.0	75
Weeping Lovegrass – <i>Eragrostis curvula</i>	2.0	3.0	.20	.50	98.0	97.0	75
<i>Bothriochloa insulpta</i>	10.0	15.0	.20	.50	90.0	85.0	60
Guines Grass – <i>Panicum</i>	5.0	8.0	.20	.50	95.0	92.0	60

<i>maximum</i>								
Blue panicgrass – <i>Panicum antidotale</i>	5.0	8.0	.20	.50	95.0	92.0	60	
Green panicgrass – <i>Panicum maximum</i> var <i>trichoglume</i>	5.0	8.0	.20	.50	95.0	92.0	60	
<i>Panicum coloratum</i>	5.0	8.0	.20	.50	95.0	92.0	60	
Vine mesquite – <i>Panicum obtusum</i>	5.0	8.0	.20	.50	95.0	92.0	60	
Switchgrass – <i>Panicum virgatum</i>	5.0	8.0	.20	.50	95.0	92.0	60	
<i>Melinis minutiflora</i>	5.0	10.0	.20	.50	95.0	90.0	60	
<i>Pennisetum typhoida</i>	4.0	5.0	.20	.50	96.0	95.0	75	
<i>Setaria sphacelate</i>	10.0	15.0	.10	.50	90.0	85.0	60	
<i>Setaria splendida</i>	10.0	15.0	.20	.50	90.0	85.0	60	
Columbus grass – <i>Sorghum almum</i>	4.0	8.0	.20	.50	96.0	92.0	75	
Hapier grass – <i>Pennisetum purpureum</i>	4.0	5.0	.20	.50	96.0	95.0	75	
Bermuda grass – <i>Cynodon dactylon</i>	4.0	5.0	.20	.50	96.0	95.0	75	
<i>Themeda triandra</i>	5.0	8.0	.20	.50	95.0	92.0	60	
Lovegrass – <i>Eragrostis superba</i>	2.0	3.0	.20	.50	98.0	97.0	75	
<i>Cynodon plectostachyus</i>	4.0	5.0	.20	.50	96.0	95.0	75	
Lovegrass – <i>Brachiaria brizantha</i>	5.0	8.0	.20	.50	95.0	92.0	70	
Trypsacum laxum	5.0	8.0	.20	.50	95.0	92.0	70	
<i>Brachiaria ruziziensis</i>	5.0	8.0	.20	.50	95.0	92.0	70	
Centro – <i>Centrosema pubescens</i>	2.0	3.0	.20	.50	98.0	97.0	65	
<i>Stylosanthes humilis</i>	3.0	4.0	.20	.50	97.0	96.0	65	
<i>Stylosanthes mucronata</i>	3.0	4.0	.20	.50	97.0	96.0	65	
<i>Clitoria ternatea</i>	4.0	6.0	.20	.50	96.0	94.0	65	

* Other crop seed content shall not exceed as follows:-

For foundation and Registered Grades50

For Certified Grade 1.00

TABLE 10

Applicable to:

- (a) Sunflower (cultivated) – *Helianthus annuus*.
- (b) Sunflower – *Carthamus Finctoeias*.

<i>Factor</i>	<i>Standards for Each Grade</i>		
	<i>Foundation</i>	<i>Registered</i>	<i>Certified</i>
	%	%	%
Pure Seed (Minimum)	97.0	97.0	97.0
Total Weed Seed (Maximum)	0.5	.10	.20
Other Crop Seed (Maximum)	None	None	.20
Inert Matter (Maximum))	3.0	3.0	3.0
Other Varieties (Maximum) 1 ... ..	.05	.10	.30
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	None.	None	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germination (Minimum)	70.0	70.0	70.0

1. Other varieties shall not include variations which are characteristic of the Variety.
2. As defined under the Weed Seed Order, 1976,

TABLE 11

Applicable to Mixture of Forage Seeds of two or more of the kinds of seeds listed in Table 8 and 9 of this Schedule.

“Mixture” means each component present in excess of 5 per cent of the whole.

<i>Grade Name</i>	<i>Maximum number of seeds per Kg. except where otherwise stated</i>		<i>Minimum percentage germination</i>	
	<i>Noxious Weed Prohibited</i>	<i>Restricted</i>	<i>Total Weed Seeds</i>	<i>Each ingredient</i>
			%	%
Common and mixture	0	4per kg.	1.5	60

Note: 1. Mixtures of grass seeds not designated buy the sender as lawn or turf grass mixtures shall be graded under this table.

2. Percentage purity and germination of each component in the order of predominance shall be stated on the seed label.

TABLE 12

Applicable to:

- (a) Cotton – *Gossypium* spp.
- (b) Kenaf – *Hibiscus cannabinus*
- (c) Roselle – *Hibiscus sabdariffa*

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	97.0	97.0	96.0
Total Weed Seed (Maximum)	0.2	0.5	.20
Other Crop Seed (Maximum)	None	None	.20
Inert Matter (Maximum)	3.0	3.0	4.0
Other Varieties (Maximum) ⁽¹⁾10	.20	.50
Prohibited Noxious Weeds (Maximum) ⁽²⁾	None	None	None
Restricted Noxious Weeds (Maximum) ⁽²⁾	None	None	4 per kg
Moisture (Maximum))	13.0	13.0	13.0
Germination and Hard Seed (Minimum)	80.0	80.0	80.0
Bacteria Blight – <i>Xanthomonas Malvacearum</i> (Minimum) ...	0.5	1.0	2.0

⁽¹⁾Other varieties shall not include variations which are characteristic of the Variety.
⁽²⁾As defined under the Weed Seed Order, 1976,

TABLE 13

Applicable to:

- (a) Bambara Nut – *Voandzeia subterranea*
- (b) Groundnut – *Arachia hypogaea*

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	97.0	97.0	97.0
Total Weed Seed (Maximum) ... ..	.01	.05	.10
Other Crop Seed (Maximum)	None	None	None
Inert Matter (Maximum) ⁽¹⁾	3.0	3.0	4.0
Other Varieties (Maximum) ⁽²⁾	None	.20	.50
Prohibited Noxious Weeds (Maximum) ⁽³⁾	None	None	None
Restricted Noxious Weeds (Maximum) ⁽³⁾	None	4 per kg.	4 per kg
Germination and Hard Seed (Minimum)	75.0	75.0	75.0
Moisture (Maximum)... ..	9.0	9.0	9.0
Rosette (Maximum)	1.0	2.0	4.0

⁽¹⁾For Spanish type, Runner type, and Virginia type seed groundnut, an additional 3.0 per cent inert matter consisting of “bald head” (seed coat removed) shall be permitted.

⁽²⁾Other varieties shall not include vitiations which are characteristic of the variety.

⁽³⁾As defined under the Weed Seeds Order, 1976.

TABLE 14*Applicable to:*

- (a) Sesame – *Sesamum indicum orientale*
 (b) Tobacco – *Nicotiana tabacum*, *Nicotiana rustica*.

<i>Factor</i>	<i>Standards for Each Grade</i>		
	<i>Foundation</i>	<i>Registered</i>	<i>Certified</i>
	%	%	%
Pure Seed (Minimum)	98.0	98.0	97.0
Total Weed Seed (Maximum) ... ..	.10	.20	.30
Other Crop Seeds (Maximum)	0.5	.10	0.20
Inert Matter (Maximum)	2.0	2.0	3.0
Other Varieties (Maximum) (1)	None	None	.10
Prohibited Noxious Weeds (Maximum) (2)	None	None	None
Restricted Noxious Weeds (Maximum) (2)	4 per kg.	4 per kg.	4 per kg
Moisture (Maximum)... ..	13.0	13.0	13.0
Germination and Hard Seed (Minimum)	80.0	80.0	80.0
Anthraxnose (Maximum) (3)	None	None	.01
Angullar Leaf spot – <i>Pseudomonas angulata</i> (Maximum) ...	None	None	
Frog-Eye, Green Spot – <i>Cercospora Nicotianae</i> (Maximum)	None	None	None
Tobacco Mosaic Virus (Maximum)	None	None	None

- (1) Other varieties shall not include variations which are characteristic of the Variety.
 (2) As defined under the Weed Seed Order, 1976,
 (3) For tobacco seed, the seed shall be treated with silver nitrate (Ag.NO3) before sale.
 Pedigree seed to be grown in sterile soil for six weeks to check for absence of Anterah nose.

TABLE 15*Applicable to:*

- (a) Bean – *Phaseolus vulgaris*
 (b) Bean, broad – *Vicia faba*.
 (c) Bean, Lima – *Phaseolus lunatis* var. *macrocarpus*.
 (d) Bean, runner – *Phaseolus cococineus*
 (e) Chick pea – *Cicer arietinum*
 (f) Cow pea – *Vigna sinensis* et. Al.
 (g) Mung Bean – *Phaseolus aurea*.
 (h) Banavist Bean – *Dolichos Lablab*
 (i) Hyacinth Bean –
 (j) Sword Bean – *Canaavalia emsiformis*.
 (k) Blackgram – *Vigna mungo*
 (l) Greengram – *Vigna aureus*.
 (m) Pigeon pea – *Cajanus cajan*.

- (n) Pea – perennial – *Lathyrus* spp.
(o) Castor bean – *Ricinus cammunis*.

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Seed (Minimum)	98.0	98.0	98.0
Total Weed Seed (Maximum)	None	2 per kg.	4 per kg.
Other Crop Seeds (Maximum)	None	None	2 per kg.
Inert Matter (Maximum)	2.0	2.0	3.0
Other Varieties Classes (Maximum) 1 ... ..	.01	.05	.10
Prohibited Noxious Weeds (Maximum) 2	None	None	None
Restricted Noxious Weeds (Maximum) 2	None	None	None
Moisture (Maximum)... ..	12.0	12.0	12.0
Germination (Minimum)	80.0	80.0	80.0
Common Bacteric Blight – <i>Xanthomonas phaseoli</i> (Maximum)	None	None	None
(3) Anthracones – <i>Coletrichum lindemunthiane</i> (Maximum)	None	None	None
(3) Bacteria Wilt – <i>Cyne bacterium flaccumfaciens</i> (Maximum)	None	0.5	1.0
Bean Mosaic Virus (B.M.V.)	None	0.5	0.5
(3) Halo Blight – <i>Psydomonas phaseoli</i>	None	0.5	0.5

- (1) Other varieties shall not include variations which are characteristic of the Variety.
(2) As defined under the Weed Seed Order, 1976,
(3) The grower shall be responsible for having disease tests made on the harvested seed of each field

TABLE 16

Applicable to:

- (a) Ginger – *Zingiber officinalis*.
(b) Cardamom – *Elittaria cardamomum*
(c) Pyrethrum – *Chysanthemum cinerarieafolium*
Notes (1) Parent Planting stock.
(2) Percentages to be based on counts.

Factor	Standards for Each Grade		
	Foundation	Registered	Certified
	%	%	%
Pure Living splits or cuttings (Minimum)	98.0	98.0	97.0
Total Weeds (Maximum)	None	None	None
Other Living Plants (Maximum)	1.0	1.0	1.0
Inert Matter (Maximum)	1.0	1.0	2.0
Prohibited Noxious Weeds (Maximum) (1)	None	None	None

Restricted Noxious Weeds (Maximum) (1)	None	None	4 per kg.
Germination (Minimum)	95.0	95.0	95.0
Other Varieties Classes (Maximum) (2)	None	None	0.50
Bacterial Fascial – <i>Corynebacterium fascians</i>	2.0	2.0	2.0
Bright Gray Mold – <i>Botrytis cinerea</i> (pa)	2.0	2.0	2.0
Damping Off – <i>Gloesporium spp</i>	2.0	2.0	2.0
Root Rot – <i>Pythium spp</i>	2.0	2.0	2.0
<i>Phymatotrichum omnivorum</i> (Text) or <i>Rizizotania Solani</i>	2.0	2.0	2.0
Stem Rot – <i>Sclerotinia Secrelerotiorum</i>	2.0	2.0	2.0
Aster Yellow – <i>Chlorogenus callistephi</i>	2.0	2.0	2.0
Leaf Eelworm – <i>Alphelenchoides ritzema – bosii</i>	None	None	None
Roots Knot Eelworm – <i>Meloidogne hapla</i>	None	None	None

- (1) As defined under the Weed Seed Order, 1976,
(2) Other varieties shall not include variations which are characteristic of the Variety.

Classes and Sources of Certified Seed of Cassava and root Cutting Crops or other Vegetatively propagated Crops:

1. Foundation plants are first year propagation from plants that are free from nematodes and that have been indexed as free from virus diseases other than latent. These plants must be grown under strict isolation in a greenhouse in which only plants that are indexed as virus-free are planted.
2. Registered plants are first year propagation from foundations.
3. Certified plants first are year propagation from Registered or Foundation plants. Specific standards shall be those established by the Certification Agency in accordance with the provisions of the Act.

TABLE 17

Applicable to:

Onion Sets and multiplier onions (Including Garlic).

1	2	3	4
<i>Grade Name</i>	<i>Size square mesh screen</i>	<i>Variety and Colour</i>	<i>General Quality</i>
1. Common seed	Diameteer $\frac{3}{8}$ to $\frac{7}{8}$	Not less than 98 per cent one variety and colour	Mature, well cured sound, free from decay and dry. Practically free from tops, dirt, leaves, of other foreign matter, from disease and moulds and from insect, mechanical, frost or other damage. Practically free from sprouted and soft bulbs when graded.

Note: The size standards under Column 2 do not apply to multiplier onions,

2. Onion sets may be labeled “pin-head” onion sets when they conform to the standards specified in this table and when the diameter of the sets is not more than ¾”.
3. The following are the generally accepted identification and distinction between *onion sets and onion multipliers*. *Onion sets: (alum cepa)* small bulbs or “sets” grown from seed used to plant for the production of mature onions. Since *A. cepa* is perennial, in the temperate zone, the sets are produced one season for planting in the next season. They are, in a practical sense just very small onions.

Onion multipliers: (A. cepa, var: varaggratum). The example variety produces branching at the base of the bulb which, when divided, can be used as propagating material for planting. The practical example in Tanzania is the Spring onion.

In the General Allum there are at least four basic means of propagation: Seed, Cloves, Topsets, and Multipliers. Seed: to produce mature onions, or for the production of *transplants* or sets. (*Allum cepa*).

Bulb segments or *cloves: (A. Sativum)* – Garlic. The separation of segments of the garlic bulb provides the usual propagation material. Seldom is garlic seed used.

Topsets are the small bulb-like planting material produced in the flower culuster, sometimes in conjunction with seed. (*A cepa, var. vivaparum*).

Multipliers are the division of the branchings at the base of the crown whichj are used for propagation. (*A cepa, var; aggregatum*) Spring onions.

TABLE 18

Applicable to:

Vegetable Crops.

MINIMUM STANDARDS APPLICABLE TO PEDIGREE GRADES

	<i>Purity (Minimum)</i>	<i>Germination (Minimum)</i>
	%	%
Beans (all types)	98	80
Beet (Incl. Swiss chard)	98	65
Broccoli	98	80
Brussels Sprouts	98	80
Cabbage	98	80
Carrot	98	60
Cauliflower... ..	90	80
Celery	99	60
Cucumber	98	75
Eggplant	98	70
Kale	98	70
Kohlrabi	98	80
Leek	98	70
Lettuce	98	75
Marrow	98	75
Muskmelon	98	75

Okra	...	...	...	...	...	...	...	...	...	98	75
Onion	...	...	...	...	...	...	...	...	...	98	70
Parsley	...	...	...	...	...	...	...	...	...	98	70
Parsnip	...	...	...	...	...	...	...	...	...	98	60
Peas	...	...	...	...	...	...	...	...	...	99	80
Pepper	...	...	...	...	...	...	...	...	...	90	60
Pumpkin	...	...	...	...	...	...	...	...	...	98	75
Radish	...	...	...	...	...	...	...	...	...	90	80
Spinach	...	...	...	...	...	...	...	...	...	98	60
Squash	...	...	...	...	...	...	...	...	...	99	75
Sweet Maize	...	...	...	...	...	...	...	...	...	98	80
Tomato	...	...	...	...	...	...	...	...	...	98	80
Turnip	...	...	...	...	...	...	...	...	...	98	80
Watermelon	...	...	...	...	...	...	...	...	...	98	80
Root crops – Potatoes	...	...	...	...	...	...	...	...	...	99.5	-

GRADE A: Not more than 1 per cent tuber moth infection.

Not more than 0.25 per cent spindle Tuber.

Bacterial wilt: None

Root knot nematode: None.

Mechanical damage: Not more than 2.0 per cent

Rhictoria (black scurf): Not more than .25 per cent

GRADE B: Same as Group A except: Not more than 2.5 per cent Tuber moth inf.

Not more than 1.0 per cent root know Nematode.

Tube size: “Small” – 1 inch to 1 1/2 inches
“Medium” – 1/2 inches to 2 inches
“Large” – 2 inches to 2 1/2 inches
“Mixed” - 1 inch to 2 1/2 inches.

TABLE 19

Applicable to:

COMMON GRADE SEED

1. Prohibited Noxious Weeds: None
2. Restricted Noxious Weeds: Maximum allowed shall be ten (10)
3. Total Weed Seed content. The maximum by weight shall not exceed 1.5 per cent.
4. Minimum Seed Standards.

	<i>Minimum Purity</i>	<i>Minimum Germination</i>
	%	%
A. CEREAL CROPS:		
Maize	95	80
Wheat	95	80

<i>Setaria sphacelate</i>	...	...	...	...	...	...	...	80	50
<i>Setaria splendida</i>	...	...	...	...	...	...	...	85	50
Napier Grass – <i>Pennisetum purpureum</i>	...	...	...	...	...	...	...	95	60
Bermuda Grass – <i>Cynodon dactylon</i>	...	...	...	...	...	...	...	80	65
<i>Cynodon plectostachyus</i>	...	...	...	...	...	...	...	80	65
<i>Themeda triandr</i>	...	...	...	...	...	...	...	80	50
Lovegrass – <i>Eragrostis superba</i>	...	...	...	...	...	...	...	95	65
<i>Brachiaria brizantha</i>	...	...	...	...	...	...	...	85	60
<i>Trypsacum laxum</i>	...	...	...	...	...	...	...	85	60
<i>Brachiaria ruziziensis</i>	...	...	...	...	...	...	...	85	60
<i>Stylosanthes humilis</i>	...	...	...	...	...	...	...	90	50
<i>Clitoria ternatea</i>	...	...	...	...	...	...	...	90	50
Alfafa – <i>Medicago sativa</i>	...	...	...	...	...	...	...	95	75
Glycine – <i>Glycine favanica</i>	...	...	...	...	...	...	...	95	60
Siratro – <i>Pkphaseolus atropurpureus</i>	...	...	...	...	...	...	...	95	75
<i>Lupine spp.</i>	...	...	...	...	...	...	...	95	75
White Clover incl. Ladino – <i>Trifolium repens</i>	...	...	...	...	...	...	...	95	75
Serradella – <i>Ornithopus sativus</i>	...	...	...	...	...	...	...	95	75
Slender leaf Crotalaria – <i>Crotalaria intermedia</i>	...	...	...	...	...	...	...	95	70
Sunn Crotalaria – <i>Crotalaria juncea</i>	...	...	...	...	...	...	...	95	70

TABLE 20

CERTIFIED TREE AND SHRUB SEEDS

1. Foundation tree seed shall be seed from trees of proven genetic superiority as defined by the Tanzania Official Certification agency and so produced as to ensure genetic identity (seeds from inter-specific hybrids of forest trees may be included).
 - (a) Registered tree and shrub seeds shall be the seed progeny grown from foundation tree or trees and shrubs.
 - (b) Certified seed shall be the seed progeny grown from either registered or foundation trees.

3. Sspecific standards shall be kthose established by the Tanzania Official Certification Agency in accordance with the provisions of the Act.

TREE AND SHRUB SEEDS

The term “tree and shrub seeds” includes seed of woody plants commonly known and sold as tree and shrub seeds in Tanzania.

SECOND SCHEDULE

(Regulation 23)
FEES FOR SERVICES

Service

Fee in Shs.

Seed field inspection made to determine the eligibility of a crop for pedigree status::	
(1) for hybrid maize per hectare inspected	12
(2) for all other kinds of seed crops, per hectare inspected	
a. Seed inspection:	
(1) for barley, beans, sorghum, maize, rice, oats, peas, soybeans, and wheat, per 25 kg. or part thereof	1
(2) for flax, millet and oilseed rape, per 25 kilos or part thereof	1
(3) for alfalfa, clovers and grasses, per 25 kilos or part thereof	1
(4) for seed of any other vegetable or root crop, per hectare or part thereof ...	12
(5) for any kind of seed not referred to in (1) to (4), per hectare or part thereof	12
b. Minimum fee for each seed lot inspected	15
a. Seed testing:	
For seed of cereals, maize, oil and fibre crops, beans, peas, vegetables and root crops and of any other kinds listed in the First Schedule:	
(1) for each germination test	15
(2) for each purity test	15
b. For seeds of foreign crops of the kinds listed in the First Schedule:	
(1) for each germination test	15
(2) for each purity test	20
c. For forage seed mixtures:	
(1) for each germination test	25
(2) for each purity test	30
d. For lawn and turf grass mixtures:	
(1) for each germination test	35
(2) for each purity test	40
e. For a percentage pure seed test, where this is not normally a part of the germination test, per sample	30
...	
4. Certificates:	
a. A seed testing certificate on an official sample from seed that is imported or subsequently exported	The amount prescribed for seed testing for the kind of seed
b. A certificate of origin in respect of seed	5

THIRD SCHEDULE

(Regulation 24)

METHODS AND PROCEDURES FOR SEED TESTING AND LIMITS OF
VARIABILITY

The purposes of these Regulations and of providing seed analysis results for labeling of seed as required under these Regulations, and for determining the limits of variability of seed analysis results (Tolerance), the International Rules of Seed testing of the International Seed Testing Association shall be used. (Volume 31, Number 1, 1966, 152 pages, or subsequently published Rules of said Association shall apply.

Analysts, as designated by the Minister, of the Tanzania National Seed Testing Laboratory or of any other officially designated seed testing laboratory in Tanzania shall obtain the results of seed analysis on seed samples submitted for testing by following the above named Rules of Seed Testing. The result of seed analysis shall be regarded as being the official results for labeling purposes as specified by these Regulations.

Dar es Salaam
13th December, 1975

J. S. MALECELA,
Minister for Agriculture

GOVERNMENT NOTICE NO.30 published on 13/2/76.

THE SEEDS (REGULATION OF STANDARDS) ACT, 1973
(No.29 OF 1973)

ORDER

Made under section 6

THE SEEDS (DETENTION AND STOP SALE) ORDER, 1976

1. This order may be cited as the Seeds (Detention and Stop Sale) Order, 1976.
2. Every package of seed seized pursuant to the provisions of the Seeds (Regulation of Standards) Act, 1973 may be detained by an inspector at any place at the risk and expense of the owner by attaching a detention or stop sale label to the package or, in the case of a seed lot, to at least one package of the lot.
3. Upon attaching a detention or stop sale label to a package pursuant to paragraph 2 of this Order, the inspector shall forthwith deliver or mail to the owner or the person in possession of the seed or package a notice of the detention or stop sale of that seed:

Provided that in addition to or in lieu of delivering or mailing the notice referred to in this paragraph, the inspector may publish the contents of such notice in such manner as will, in the opinion of the inspector, ensure the contents thereof coming to the notice of the person or persons who will or are likely to be affected thereby:

Provided further that nothing in this paragraph shall be construed as ignorance of the

contents of any such notice being a defence in any prosecution for an offence under the Seeds (Regulation of Standards) Act, 1973 where such notice has been published in the *Gazette*.

4. Except with the written authority of an inspector, no person shall sell or trade in any manner any seed upon which has been placed a detention or stop sale label.

5. Where any seed has been placed under detention or stop sale by an inspector under paragraph 2 of this Order, the owner or the person in possession of the seed may apply to the inspector for the release of the seed:

Provided that no seed shall be released unless the person applying for the release has fulfilled to the satisfaction of the inspector all the requirements of the Seeds (Regulation of Standards) Act, 1973 the non-compliance of which led to the seed being placed under detention or stop sale.

6. Any seed or package forfeited to the Government under the provisions of the Seeds (Regulation of Standards) Act, 1973 shall be disposed of in such manner as the Chief Inspector may, with the approval of the Minister, direct.

Dar es Salaam
13th December, 1975

J. S. MALECELA,
Minister for Agriculture

GOVERNMENT NOTICE NO.31 published on 13/2/76.

THE SEEDS (REGULATION OF STANDARDS) ACT, 1973
(No.29 OF 1973)

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ORDER
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THE WEED SEEDS ORDER, 1976

1. This order may be cited as the Weed Seeds Order, 1976.
2. – (1) For the purpose of this Order “Weed seed” means seeds, bulblets or tubers of plants specified as weed seeds under the Seeds (Regulation of Standards) Act, 1973 or recognized as weed seeds by general usage.

(2) The seeds of the species of plants specified in the Schedule hereto are hereby prescribed as weed seeds for the purpose of establishing grade standards under the Seeds (Regulation of Standards) Act, 1973.

SCHEDULE

Class 1: Prohibited Noxious Weed Seeds (applicable to all tables of grade standards set out in first Schedule to the Seeds Regulations, 1976).

Prohibited noxious weed seeds are weed seeds not allowed in any seed at all, that is to say, a sample of seed may not contain any Prohibited noxious weed seed. However, if any prohibited noxious weed seed is found in a sample, the tolerance shall be one seed per kilogram. If two or more seeds are found in a kilogram the seed shall be placed under stop sale until it has been re-cleaned and re-tested. When one prohibited noxious weed seed is found it will be considered within the tolerance none. The following are prohibited noxious weed seeds:-

- | | |
|---|------------------------------|
| 1. Witchweed | <i>Striga spp</i> |
| 2. Dodder | <i>Cuscuta spp</i> |
| 3. Field bindweed | <i>Convolvus arvensis L.</i> |
| 4. Hemp | <i>Marijuana</i> |
| 5. <i>Cannabis Sativa</i> (known as True Hemp and in Swahili as Bhang or Bhangi). | |
| 6. <i>Erythrosylum Coca</i> (known as Cocaine plant). | |
| 7. Sudan grass – sorghum Sudanese (Piper) Hitch, (in sorghum). | |

Class 2: Restricted Noxious Weed Seeds (applicable to all tables of grade standards set out in the First Schedule to the Seeds Regulations, 1976).

The following are restricted noxious weed seeds:-

- | | |
|-------------------------|--|
| 1. Couch grass | <i>Digitaria scalarum</i> (Schweinf.) Chiov. |
| 2. Nutgrass, Watergrass | <i>Cyperus spp.</i> |
| 3. Thorn apple | <i>Datura spramondum L.</i> |
| 4. Perennial sowthistle | <i>Sonchus arvensis L.</i> |
| 5. Wild mustard | <i>Brassica campestris L</i> |
| 6. Wild oats | <i>avena spp</i> |
| 7. Mexican poppy | <i>Argemone mexlacana L.</i> |
| 8. Darnel | <i>Lolium temulentum L.</i> |
| 9. Guinea-fowl grass | <i>Rottboelia exaltata L.f.</i> |
| 10. Love grass | <i>Setaria verticiltata (L.) Beauv.</i> |
| 11. Wild rice | <i>Oryza barthii A. Chev.</i> |

The presence of restricted noxious weed seeds in any sample of seed shall be restricted. Where any restricted noxious weed seeds are found in any sample of seed the maximum allowed shall not exceed four weed seeds per kilogram, whether the four weed seeds are of the same kind or a combination of two or more kinds of weed seeds, and the name and number of each kind must be stated on the label.

Class 3: Common Noxious Weed Seeds (Applicable to all tables of grade standards set out in the First Schedule to the Seeds Regulations, 1976).

Common noxious weed seeds are seeds bulblets or tubers or pieces thereof specified as weed seeds under the Seeds (Regulation of Standards) Act, 1973 or recognized as weed seeds by general usage. The presence of common noxious weed seeds in any sample of seed shall be restricted. Where any common noxious weed seeds are found in any sample of seed the maximum allowed shall not exceed 1.5% by weight.

Common noxious weed seeds include, but not restricted to, the following seeds:-

1. Cleavers	<i>Galium spurium</i> L.
2. Dock	<i>Ramex crispus</i> L.
3. Chickweed	<i>Stellaria media</i> (L.) Vill.
4. Mexican marigold	<i>Tagetes minuta</i> L.
5. Chinese lantern	<i>Nicandra physalodes</i> (L.) Gaertn.
6. Oxalis	<i>Oxalis latifolia</i> H.B.K.
7. Blackjack	<i>Bidens pilosa</i> L.
8. Pigweed	<i>Amaranthus</i> spp..
9. Goosefoot	<i>Chenopodium</i> spp.
10. Crabgrass	<i>Digitaria velutina</i> (Forsk.) Beauv.
11. Macdonaldi, Gallant soldier	<i>Galinsoga paarviflora</i> . Cav.

Dar es Salaam,
13th December, 1975

J. S. MALECELA,
Minister for Agriculture
