

LEGAL NOTICE NO.

THE SEEDS AND PLANT VARIETIES ACT
(Cap. 326)

THE SEEDS AND PLANT VARIETIES (FOREST TREE SEEDS) REGULATIONS,
2021

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SCHEDULES

LEGAL NOTICE NO.....

**THE SEEDS AND PLANT VARIETIES ACT
(Cap. 326)**

IN EXERCISE of the powers conferred by sections 3 of the Seeds and Plant Varieties Act, the Cabinet Secretary for Agriculture, Livestock, Fisheries and Cooperatives makes the following Regulations—

**THE SEEDS AND PLANT VARIETIES (FOREST TREE SEEDS)
REGULATIONS, 2021**

Citation. **1.** These Regulations may be cited as the Seeds and Plant Varieties (Forest Tree Seeds) Regulations, 2021.

Interpretation. **2.** In these Regulations unless the context otherwise requires—

“authorisation” means the delegation of some or all aspects of seed certification and seed testing services by the Service to a competent private or public person;

“authorized person,” means a competent private or public person authorized by the Service in accordance with section 3B(1)(b) of the Act;

“certified seed” means seed which meets the set standards in accordance with these Regulations and has been issued with a Test Results and a Master Certificate;

“Cabinet Secretary” means the Cabinet Secretary for the time being responsible for matters relating to agriculture;

“Committee” means the National Forest Tree Seed Regulation Committee constituted in accordance with regulation 6;

L. N. 220/2016. “forest tree” means a woody perennial plant with a self-supporting trunk branching above the ground and able to attain a height of at least five metres but shall not include the prescribed seeds under the Seed and Plant Varieties (Seeds) Regulations, 2016.

“forest tree seed” means forest tree reproductive material or the part of a plant which is or is intended to be used for propagation including any seed, seedling, cutting, scion, stem, so used or intended to be so used;

“forest tree seed analyst” means a suitably qualified person appointed or authorised under section 3B of the Act and includes the staff of the seed testing station or a laboratory designated by the Service to undertake seed testing and has the capacity to analyse forest tree seeds;

“forest tree seed inspector” means a suitably qualified persons appointed

or authorised under section 3B of the Act and capable of inspecting forest tree seeds;

“forest tree seed lot” means a specified quantity of homogeneous seed that measures to the prescribed maximum weight which is represented by one sample in laboratory seed testing and is physically identifiable by a unique reference number;

“forest tree seed merchant” means any person or institution registered by the Service as suitable to produce, process or market forest tree seeds;

“forest tree seed orchard” means a plantation of forest trees that have met the required standards, approved and duly registered by the Service in accordance with these Regulations to produce forest tree seeds;

“forest tree seed processing” means all the treatment that the forest tree seed is subjected to, other than testing, between collection, distribution and sale;

“forest tree seed quality” means a tree seed lot that has declared to be of genetic diversity, germination capacity, and physical purity and is free from noxious and invasive weeds and seed borne diseases and pests;

“forest tree seed stand” means a selected group of cultivated or naturally occurring trees, which have been registered by the service with the aim of producing tree seed;

“forest tree seed testing” means the examination of a sample of tree seed to determine its quality;

“forest tree seed stockist” means any person or institution registered by the service to sell certified forest tree seeds from a designated premise;

“genetic diversity” means the variability of genotypes in a plant population;

“germination capacity” means the percentage of seeds that have germinated during a germination test;

“intermediate seeds” means seeds, which are characterized by high oil content, retain their viability when dried but are affected by cold storage;

“inspection” means an examination of a seed source and seeds including the checking for effective isolation distance, hectareage of the seed field, off-types, and diseased plants undertaken as part of the seed certification programme;

“labelling” means the process of affixing a tag or identification mark so as to ensure correct identification of any container of seed;

“national register” means the official list of all forest tree seed sources registered in Kenya;

“official seed sample” means a seed sample drawn by a forest tree seed inspector in accordance with these regulations;

“origin” means the geographical location and environment, which the parent tree of a reproductive material is native and within which its genetic constitution has developed through natural selection;

“orthodox seeds” means the seeds whose viability is not significantly affected when dried or exposed to very low temperatures;

“plantation” means a population of cultivated trees of sufficient number of individuals to guarantee genetic diversity and of a size, which permits inter-pollination of all trees within the plantation;

“provenance” means the geographical location and environment of the immediate parent tree of the seed lot;

“pure germinating seed” means the proportion of pure seed in a seed lot capable of germinating into normal seedlings under optimal germination conditions;

“purity” means the percentage by weight of pure seeds of the species in question as determined by analysis in a seed laboratory;

“recalcitrant seeds” means the seeds, which are characterised by loss of viability when dried or exposed to very low temperatures;

“sealing” means the stage in processing whereby a seed container is sealed to prevent any tampering;

“seed source” means a delineated area or location within which there are trees from which seed is collected;

“seed testing laboratory” means a laboratory, declared by notice in the *Gazette* to be a seed testing laboratory;

“seed treatment” means a stage of seed processing where chemical substances are applied on the surface of seeds for the purposes of the seed certification process;

“source identified seed” means seed lots whose geographical area of origin is documented and known.

Application.

3.(1) These Regulations shall apply to all forest and agroforestry tree seeds produced for commercial, conservation and restoration purposes.

(2) These Regulations shall not apply to all forest and agroforestry tree

seeds intended for research and academic purposes.

Prescribed seeds.

4. The Seeds of the plant species set out in the First Schedule shall be prescribed seeds for purposes of these Regulations.

Seed testing station.

5. The Service shall publish, in the *Gazette*, the seed testing stations for forest tree seeds established under section 11 of the Act.

Establishment of the National Forest Tree Seed Regulation Committee.

6.(1) There is established a National Forest Tree Seed Regulation Committee which shall consist of—

- (a) the Director for Forestry Conservation or a representative of the Ministry responsible forests, designated in writing, who shall be the chairperson;
- (b) the Director responsible for Crop Development in the Ministry responsible for agriculture who shall be the alternate chairperson;
- (c) the Director, Kenya Plant Health Inspectorate Service or a representative, designated in writing, who shall be the Secretary;
- (d) the Director, Kenya Forestry Research Institute or a representative designated in writing;
- (e) two persons nominated by the Council of Governors, one of whom shall be a representative of the County Executive Committee Caucus on matters relating to Environment;
- (f) the Chief Conservator of Forests or a representative designated in writing;
- (g) one representative from each of the following organizations taking into consideration gender parity, youth and persons with disabilities—
 - (i) an association of forest tree seed merchants;
 - (ii) an association of established vertically integrated commercial forestry companies;
 - (iii) an association of farmers actively involved in commercial forestry;
 - (iv) the Forestry Society of Kenya;
 - (v) an Association of seedling producers; and
 - (vi) the Plant Breeders Association of Kenya.

(2) The National Forest Tree Seed Regulation Committee shall—

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- (a) advise the Cabinet Secretary on matters related to forest seed policy and forest tree seed regulation;
- (b) develop, modify, vary or alter certification standards for forest tree seed;
- (c) approve the manuals and operating procedures for guidance in the authorisation of forest tree seed certification; and
- (d) hear and determine appeals by aggrieved persons under these Regulations.

(3) The members of the committee appointed under paragraphs (2)(e) and (g) shall hold office for a term of three years and shall be eligible for appointment for one further term of three years.

(4) The appointment of the members paragraphs (2)(e) and (g) shall be staggered to ensure continuity of committee activities.

(5) The Committee shall meet at least once a year.

(6) The Committee may co-opt into their meeting—

- (a) such number of members not exceeding three to represent such interest as it may from time to time determine; and
- (b) one other member from relevant academic institutions of higher learning training on forest tree science and forest tree seed technology, where necessary.

(7) The Committee may form such subcommittees consisting of members of the Committee to deal with such matters as the Committee may specify functions on its behalf.

(8) The committee shall determine and regulate its' own procedures.

(9) Any person aggrieved by a decision of the Committee may appeal within thirty days to the Seed and Plant Tribunal.

County Forest
Tree Seed
Advisory Panel.

7.(1) There shall be a County Forest Tree Seed Advisory Panel in each County consisting of—

- (a) the County Director responsible for matters relating to agriculture who shall be the chairperson;
- (b) the County Director responsible for matters relating to forestry who shall be the alternate chairperson;
- (c) the Regional Manager, Kenya Plant Health Inspectorate Service who

shall be the Secretary;

- (d) the Regional Director, Kenya Forestry Research Institute;
- (e) the Head of Conservancy, Kenya Forest Service; and
- (f) one regional representative from the following institutions while considering gender parity, youth and persons with disabilities—
 - (i) an association of Forest tree seed merchants;
 - (ii) an association of vertically integrated commercial forestry companies
 - (iii) an association of farmers actively involved in commercial forestry;
 - (iv) the Forestry Society of Kenya; and
 - (v) an association of seedling producers.

(2) The County Forest Seed Advisory Panel shall—

- (a) advise the County Executive Member responsible for matters relating to agriculture on matters relating to the implementation of these Regulations within the respective County by all actors; and
- (b) advise the National Forest Tree Seed Regulation Committee on any issues relating to forest tree seed within the respective County.

(3) The panel may co-opt into their meeting such number of members not exceeding three to represent such interests as it may from time to time determine taking into account gender parity, youth and persons with disabilities.

(4) The panel shall meet at least twice a year.

(5) A County Forest Tree Seed Advisory Panel may establish a joint panel with another County Forest Tree Seed Advisory Panel, within a regional provenance, consisting of members of the County Forest Tree Seed Advisory Panels.

(6) Where joint panels are established under paragraph (5), the regulation of the conduct of the business of the joint panels shall be as agreed between the County Forest Tree Seed Advisory Panels.

Registration of forest tree seed merchants.

8.(1) A person intending to be a forest tree seed merchant shall apply to the Service for registration in Form FTSR 1A set out in the in the Second Schedule and pay the prescribed fees set out in the Third Schedule.

(2) A person shall be eligible for registration as a forest tree seed merchant if the person—

- (a) is registered legal entity;
- (b) has capacity to produce seed;
- (c) has appropriate facilities to produce and process the seed;
- (d) demonstrates knowledge on forest tree seed matters and capability to maintain the quality and viability of the seed to be offered for sale; and
- (e) has a seed distribution network.

(3) The Service shall register a successful applicant as a forest tree seed merchant and issue a certificate of registration to the registered forest tree seed merchant in Form FTSR 1B set out in the Second Schedule subject to such conditions relating to the handling of seed to be exposed for sale as the Service may consider necessary.

(4) The certificate of registration issued under paragraph (3) shall unless earlier revoked shall be valid for one year.

(5) The Service shall, after giving the forest tree seed merchant an opportunity to be heard, revoke a certificate of registration issued under paragraph (3) where a forest tree seed merchant fails to meet the conditions imposed on a certificate of registration.

(6) In addition to the fees prescribed in the Third schedule, a registered forest tree seed merchant shall pay any other statutory or licensing and fees levied by either the county or national government.

(7) A registered forest tree seed merchant shall—

- (a) keep complete records of seeds collected, bought, sold or distributed for a period of at least three years and avail the records upon request by the Service; and
- (b) submit to the Service monthly seed stock records in the prescribed Form FTSR 5F set out in the Second Schedule.

(8) Any person who operates as a forest tree seed merchant without being registered by the Service in accordance with this regulation commits an offence.

Registration of forest tree seed stockists.

9.(1) A person who is intends to be a forest tree seed stockist shall apply to the Service for registration in Form FTSR 2A set out in the in the Second Schedule and pay the prescribed fees set out in the Third Schedule.

(2) A person shall be eligible for registration as a forest tree seed stockist if the person—

- (a) is a registered legal entity;
- (b) has a premise with appropriate facilities for storage and maintenance of the quality and viability of seed;
- (c) demonstrates knowledge of handling the forest tree seed offered for sale; and
- (d) demonstrates ability to disseminate knowledge on the handling of forest tree seeds to the users.

(3) The Service shall register a successful applicant as a forest tree seed stockist and issue a certificate of registration to the registered forest tree seed stockist in Form FTSR 2B set out in the Second Schedule subject to such conditions relating to the handling of seed to be exposed for sale as the Service may consider necessary.

(4) The registration certificate issued under paragraph (3) shall unless earlier revoked shall be valid for one year.

(5) The Service shall, after giving the forest tree seed stockist an opportunity to be heard, revoke a certificate of registration issued under paragraph (3) where a forest tree seed stockist fails to meet the conditions imposed on a certificate of registration.

(6) In addition to the fees prescribed in the Third schedule, a registered forest tree seed stockist shall pay any other statutory or licensing and fees levied by either the county or national government.

(7) Any person who operates as a forest tree seed stockist without being registered by the Service in accordance with this regulation commits an offence.

Registration of seed sources.

10.(1) A person who intends to register a forest tree seed source shall apply for the registration of the forest seed in Form FTSR 3A set out in the Second Schedule and meet the minimum standards for seed certification set out in Part I of the Fourth Schedule.

(2) The Service shall register the forest seed source and issue a certificate of registration to a successful applicant in Form FTSR 3B set out in the Second Schedule upon payment of the prescribed fees set out in the Third Schedule.

(3) The Service may register forest tree seed sources from any of the recognized regional provenances set out in Part II the Fourth Schedule.

(4) The Service shall keep and maintain a National Register of all Forest Tree Seed sources registered under this regulation where it shall enter all forest tree sources registered under paragraph (2).

(5) The Register maintained by the Service under paragraph (4) shall contain the information as specified in Part III of the Fourth Schedule.

Application of standards and procedures.

11. The procedures and standards applicable under these Regulations shall be in accordance with the locally approved and the internationally recognised standards and procedures prescribed by the Service.

Seed certification.

12.(1) The seeds of the plant species set out in the First Schedule shall be eligible for certification.

(2) The seeds set out in the Fifth Schedule shall undergo mandatory certification.

(3) The Service shall undertake certification of seed and forest reproductive material from registered forest tree seed sources.

(4) The Service shall certify forest tree seed sources into four categories of Forest Reproductive Materials as specified in the Sixth Schedule.

(5) The Service shall certify forest tree seed that meets all the requirements as set out in Part I of the Fourth Schedule.

(6) The owners of registered seed sources shall ensure that seed sources comply with the standards and categorization set out in Part I of the Fourth and Sixth Schedule, respectively.

Authorization.

13.(1) The Service may in accordance with section 3B of the Act authorize competent private or public persons to perform specified functions under these Regulations.

(2) The Service shall in accordance with section 3B of the Act authorize the Kenya Forestry Research Institute to provide technical assistance to the Service in matters relating to inspection and certification under these Regulations where the Institute is not the producer of forest tree seed that is to be inspected and certified.

(3) The Service shall, when granting authorization under paragraph (1) or (2), make reference to the manuals and operating procedures for forest tree seed certification approved by the Forest Tree Seeds Regulation Committee established under regulation 6.

Inspection of forest tree seed sources.

14.(1) The Service shall inspect all registered forest tree seed sources during growth for compliance with prescribed standards in Part I of the Fourth Schedule.

(2) A registered forest tree seed merchant shall apply to the Service for forest tree seed source inspection in Form FTSR 4A set out in the Second Schedule at least two months before flowering or as prescribed in the Fourth Schedule.

(3) The application under paragraph (2) shall be accompanied by the prescribed fees set out in the Third Schedule.

(4) Upon approval of an application under paragraph (2), a forest tree seed inspector shall undertake a seed source inspection for the purposes of certification.

(5) The inspection under paragraph (4) shall be limited to registered forest tree seed sources.

(6) A forest tree seed inspector shall have power to enter any registered forest tree seed source for inspection.

(7) A forest tree seed inspector conducting a forest seed source inspection shall approve the collection of tree seeds if satisfied that the forest seed source meets the inspection standards specified in Part V of the Fourth Schedule.

(8) The results of each seed source inspection shall be issued to the applicant in paragraph (2) in Form FTSR 4B set out in the Second Schedule within twenty-four hours after the date of inspection.

(9) A registered forest tree seed merchant who is not satisfied with the results of any seed source inspection may lodge an appeal for re-inspection with the Service, in writing, within three working days from the date of inspection.

(10) Upon receipt of an appeal, the Service may constitute a committee to address the appeal consisting of—

- (a) a representative of the forest tree seed merchant;
- (b) senior forest tree seed inspector;
- (c) one other member from among the following—
 - (i) a forest tree breeder;
 - (ii) county officer in charge of Environment and Forestry;
 - (iii) county officer in charge of agriculture; or
 - (iv) the local Kenya Forest Service Officer.

(11) An appellant shall bear the cost of re-inspection where the inspection results confirm the initial result and where the results of the re-inspection do not conform to those of the seed inspector, the Service shall bear the cost of re-inspection.

Forest tree seed collection.

15.(1) A registered forest tree seed merchant shall collect seed for certification from registered seed sources that have been inspected, and approved for seed collection.

(2) A registered forest tree seed merchant shall collect seed in accordance to the procedures for seed collection issued by the Service.

(3) The Service shall confiscate and dispose of any seed lot collected in contravention of the provisions of this regulation under the supervision of a forest tree seed inspector authorized by the Service.

(4) Any person who contravenes the provisions of this regulation commits an offence.

Inspection of forest tree seed processing.

16.(1) A person shall not process forest tree seed unless that person is a registered forest tree seed merchant.

(2) A registered forest tree seed merchant shall source and process forest tree seed from a seed source that meets the requirements of regulation 13 and accordance with the standards and protocols set out in Parts I and IV of the Fourth Schedule.

(3) A seed inspector may enter and inspect the premises and seed lots of any forest tree seed merchant that is collected and is being processed under this regulation.

(4) Any rejected forest tree seed lots shall be disposed of under supervision of the Service and at the owner's cost.

(5) A forest tree seed inspector under the Service shall separately mark and separately store all processed seed as identifiable lots with unique lot numbers.

(6) The forest tree seed merchant shall pay the appropriate lot examination fees as prescribed in the Third Schedule.

(7) Any person who contravenes the provisions of this regulation commits an offence.

Forest tree seed sampling for testing.

17.(1) A forest tree seed inspector shall draw an official sample from seed lots collected in accordance with regulation 15 and from all imported seeds for purposes of laboratory seed testing.

(2) A forest tree seed inspector shall sample seed lots in accordance with internationally recognised procedures as shall be provided by the Service.

(3) A forest tree seed inspector shall, at the time of sampling, create seed lots and that do not exceed the maximum weight prescribed by the Service.

(4) Each official sample shall bear a unique reference number.

(5) The forest tree seed merchant shall pay the seed sampling fees prescribed in the Third Schedule.

Forest tree seed testing.

18.(1) A seed analyst shall undertake seed testing for the purposes of certification in accordance with the protocols as issued by the Service.

(2) A forest tree seed analyst shall carry out the testing of all official forest tree seed samples submitted for testing at a designated seed laboratory.

(3) A designated seed laboratory may also offer testing services for a private seed sample drawn by a forest tree seed merchant.

(4) A portion of seed sample submitted for testing shall be labelled and kept in storage as a reference sample under optimal conditions for at least twelve months from the date of testing.

(5) A person shall submit a forest tree seed sample for testing under paragraphs (2) and (3) together with the sample submission form in Form FTSR 5A set out in the Second Schedule.

(6) A forest tree seed merchant shall pay the seed sample testing fee prescribed in the Third Schedule.

(7) A forest tree seed analyst shall—

(a) test seed samples in accordance with the protocols issued by the Service;

(b) record the results of the seed test in a test results report form in Form FTSR 5B set out in the Second Schedule;

(c) state whether the tested seed has met the standards as set out in Fourth Schedule; and

(d) provide the results of the seed testing to the forest tree merchant in Form FTSR 5C set out in the Second Schedule.

(8) For the purposes of this regulation private seed sample means any sample submitted to the seed testing laboratory by any seed merchant for testing.

Seed packaging, labelling and sealing.

19.(1) A forest tree seed merchant shall not label or seal seed lots before a forest tree seed inspector has drawn an official sample.

(2) In case of early movement of seed, the forest tree seed merchant shall—

- (a) prove that the seed lots passed all seed source tests by providing the requisite test results report in Form FTSR 5B set out in the Second Schedule; and
- (b) provide the purchaser with a written statement indicating that the seed lots are being moved prior to the release of official seed testing results.

(3) Where the official seed testing results show that the seed does not meet the required standards, the Service shall issue a stop sale order to the forest tree seed merchant in Form FTSR 5E set out in the Second Schedule.

(4) Upon receipt of the order to stop sale, the forest tree seed merchant shall withdraw the seed lots that have not met the prescribed minimum laboratory standards and expeditiously compensate buyers for any loss incurred.

(5) A forest tree seed inspector shall immediately pack in bags or containers, securely close and seal certified seed lots which have met the prescribed minimum standards.

(6) A forest tree seed merchant shall affix a label on bags of certified seed lots packed under paragraph (1) of five kilogrammes and with a certification label whose serial number shall be recorded or affix a sticker as may be specified by the Service where the certified seed is packed in bags or containers of below five kilograms.

(7) The certificate label and sticker under paragraph (6) shall indicate—

- (a) seed source code number;
- (b) the provenance;
- (c) the seed species;
- (d) the seed lot number;
- (e) the date of sealing;
- (f) the weight of the packet, bag or container or expected number of seedlings; and
- (g) the basic pre-treatment methods.

(8) A person, other than the ultimate user, shall not remove labels, seal or open sewn or closed packets of seed.

(9) A forest tree seed analyst shall re-sample, re-test, re-label and re-seal any seed lots whose validity of certification has expired under the

supervision of a forest tree seed inspector.

(10) Where a forest tree seed merchant has returned certified seed lots from the points of sale for re-packaging, the re-packaging shall be done under the supervision of the forest tree seed inspector.

(11) A person who contravenes the provisions of this regulation commits an offence.

Validity of certification and quality declaration.

20.(1) Unless earlier revoked, the validity of certification for the prescribed seeds under this regulation shall be from the date of sampling for that particular seed lot to the following—

(a) intermediate seed -ninety days;

(b) orthodox seed- one year.

(2) A forest tree seed merchant shall notify the Service for re-sampling, re-testing and re-sealing of seed lots whose validity of certification has expired.

(3) A forest tree seed inspector or forest tree seed analyst may, at any time conduct sampling and re-testing of all seed stored for sale by a licensed forest tree seed stockists.

(4) A forest tree seed inspector or forest tree seed analyst shall issue an order to stop sale in respect of seed lots whose germination capacities are below the prescribed standards and quality declared for the respective seed lot.

(5) Where a forest tree seed inspector or forest tree seed analyst has issued order to stop sale under paragraph (4), the forest tree seed merchant shall retrieve the affected seed lots from all forest tree seed stockists and dispose of such seed under the supervision of the Service.

(6) A registered forest tree seed merchant pursuant to Regulation 16(5) shall be liable to compensate fully the buyer of such seeds.

(7) Any forest tree seed merchant who contravenes paragraph (2) and (5) commits an offence.

Sale of forest tree seeds.

21.(1) A forest tree seed merchant or forest tree seed stockist shall not offer forest tree seed set out in the Fifth Schedule for sale unless it has met the minimum standards specified in the Fourth Schedule and has a Test Results Certificate in Form FTSR 5C set out in the Second Schedule and has been issued with a Master Certificate in Form FTSR 5D set out in the Second Schedule.

(2) A forest tree seed merchant or forest tree seed stockist shall not offer species of forest tree seed specified in the Fifth Schedule that is not certified.

(3) The registered forest tree seed merchant shall, pursuant to the provisions of regulation 20(1) be responsible for the quality of any seed forest tree seed the forest tree merchant sells or offers for sale.

(4) Every registered forest tree seed merchant shall establish an appropriate system and facilities to maintain the quality and viability of the seed offered for sale.

(5) A forest tree seed inspector shall have power to enter and inspect any premises where forest tree seed for sale is stored to ascertain conformity with paragraph (4).

(6) A person, who distributes, markets or in any way deals with any forest tree seed, whose quality does not meet the requirements of this regulation commits an offence.

Monitoring of
seed sale by
County
Governments.

22. The County Executive Committee Member responsible for matters relating to agriculture in consultation with County Executive Committee Member responsible for matters relating to forestry shall while monitoring forest tree seed sale within a County—

- (a) verify that the forest seed merchants and stockist operating within a county have the relevant licences from the county government and the Service;
- (b) check availability of seed, validity of certification, and compliance to seed handling procedures; and
- (c) report any non-compliance with these Regulations to the Service.

Importation and
exportation
forest tree seed.

23.(1) A person shall not import any forest tree seed for distribution unless—

- (a) that person is a registered forest tree seed merchant;
- (b) the seed to be imported are species listed in the Fifth Schedule and meets the standards set out in the Fourth Schedule;
- (c) that person has submitted a notice to import such seed to the Service; and
- (d) the Service has approved and issued the person with a seed import permit.

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(2) All imported forest tree seed shall be accompanied by a Phytosanitary Certificate and shall meet Kenyan quarantine requirements under the Plant Protection Act.

(3) A person shall market imported forest tree seed subject to regulation

15 and 16.

(4) All forest tree seed for export shall be accompanied by a Phytosanitary Certificate issued by the Service and shall meet the forest tree seed standards of the importing country.

Records.

24. The Service shall keep records on registered forest tree seed sources, registered forest tree seed merchants, registered forest tree seed stockists and forest tree seed stock.

Exemptions.
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25.(1) A person may pursuant to section 3(5) of the Act apply for exemption from provisions of these regulations on the following grounds—

(a) national interest; or

(b) the person intends to import parental material for purposes of commercial propagation and re-export without release of parental material in the country and has met the quarantine requirements set out in the Plant Protection Act.

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(2) The Cabinet Secretary may, after consultation with the Committee, consider the application and waive the standards for forest tree seeds if satisfied that the applicant meets the conditions specified in paragraph (1).

Exemption of
registered
merchants and
stockist.
L. N. No 220 of
2016

26.(1) A seed merchant or seed stockist who is already registered under the Seeds and Plant Varieties (Seeds) Regulations 2016 who intends to engage as a forest tree seed merchant or forest tree seed stockist may apply to the Service, in writing, to extension of the scope of their existing registration certificates.

(2) The Service shall consider an application made under paragraph (1) and request the applicant to submit their current registration certificate.

(3) The Service may extend the scope of the registration certificate of a merchant or stockist upon the merchant or stockist complying and adhering to the requirements for registration under these Regulations.

(4) The Service may, subject to regulation 24(3), grant an extension of the scope of the registration certificate of a merchant or stockist and stamp the existing registration certificate with the approved extended scope of the registration certificate.

(5) The Service shall not charge additional fee for extending the scope of the registration certificate of a merchant or stockist.

Disclosure of
information.

27. The provisions of section 3(e) of the Act shall apply in the disclosure of confidential information by parties under these Regulations.

Appeals.

28.(1) A person aggrieved by the decision of the Service may appeal to the National Forest Tree Seed Regulations Committee within thirty days of the

decision.

(2) A person aggrieved by a decision of the National Forest Tree Seed Regulation Committee may appeal to the Seeds and Plant Tribunal within thirty days of the decision.

Protection from liability in certain cases.

29.(1) No legal proceedings shall lie against any officer for anything done *bona fide* as towards and without negligence, in the exercise of their powers or the performance of their functions or duties under these Regulations.

(2) For the purposes of this regulation, the term “officer” includes an appointed or authorized person under section 3B of the Act.

FIRST SCHEDULE

(r. 4, 12(1))

PRESCRIBED SEEDS

Group A: Orthodox seeds

<i>Acacia abyssinica</i> - Flat top acacia	<i>Casuarina jughuniana</i> - River oak
<i>Acacia brevispica</i> - Wait-a-bit thorn	<i>Chorisia speciosa</i> - Red silk cotton tree
<i>Acacia drepanolobium</i> - Ant gall acacia	<i>Combretum schumannii</i> - Mpera mwitu
<i>Acacia elatior</i> - River acacia	<i>Combretum suluense</i> - Weeping willow
<i>Acacia gerrardii</i> - Red thorn acacia	<i>Combretum zeyheri</i> - Bush willow
<i>Acacia horrida</i> - Cape Gum/ Karoo bush	<i>Commiphora aballuensis</i> - Commiphora
<i>Acacia lahai</i> - Red thorn	<i>Cordeuxia edulis</i> - Yeheb nut
<i>Acacia mearnsii</i> - Black Wattle tree	<i>Cordia Africana</i> - Green leaf cordia
<i>Acacia melanoxylon</i> - Australian black wood	<i>Cordia monoica</i> - Sand paper tree
<i>Acacia mellifera</i> - Hook thorn	<i>Cordia sinensis</i> - Saucer berry
<i>Acacia nilotica</i> - Nile thorn	<i>Croton macrostachys</i> - Mutundu
<i>Acacia polycantha</i> - Falcon claw acacia	<i>Croton megalocarpus</i> - Croton
<i>Acacia seyal</i> - White thorn acacia	<i>Cryptomeria japonica</i> - Japanese cedar
<i>Acacia sieberiana</i> - Paperback thorn	<i>Cupressus pyramidalis</i> - Italian cypress
<i>Acacia xanthopholea</i> - Naivasha thorn	<i>Delonix regia</i> - Flamboyant
<i>Acacia zanzibarica</i> - Coastal acacia	<i>Diospyros scabra</i> - Diospyros
<i>Acokanthera schimperi</i> - Arrow poison tree	<i>Dobera glabra</i> - Muswaki, Mkupa
<i>Acrocarpus fraxinifolius</i> - Red cedar	<i>Dodonea viscosa</i> - Dodonea / Sand olive, Mkaa-Pwani
<i>Adansonia digitata</i> - Baobab	<i>Dombeya torrida</i> - Dombeya
<i>Adenanthera paroviana</i> - Red sandalwood	<i>Dovyalis abyssinica</i> - African Gooseberry.
<i>Afzelia quanzensis</i> - Mahogany bean	<i>Dovyalis caffra</i> - Kei apple
<i>Albizia coriaria</i> - E.A albizia	<i>Drypetes gerrardii</i> - Forest iron plum
<i>Albizia grandibracteata</i> - Large leaved albizia	<i>Erythrina abyssinica</i> - Coral tree
<i>Albizia gummifera</i> - Peacock flower	<i>Erythrina burttii</i> - Flame tree
<i>Albizia lebeck</i> - Indian walnut	<i>Erythrophleum guineense</i> - Sassa wood tree
<i>Albizia procera</i> - Tall albizia	<i>Eucalyptus ficifolia</i> - Red flowering gum
<i>Allophylus abyssinicus</i> - Forest velvet	<i>Eucalyptus maculata</i> - Spotted gum
<i>Aningeria adolf-friederici</i> - Lugishu	<i>Eucalyptus paniculata</i> - Grey back gum
<i>Araucaria angustifolia</i> - Brazilian pine	<i>Eucalyptus regnans</i> - Mountain ash
<i>Araucaria cunninghamii</i> - Hoop pine	<i>Faidhebia albida</i> - Apple ring acacia
<i>Atriplex numularia</i> - Salt brush	<i>Flacourtia indica</i> - Madagascar plum
<i>Balanites aegyptiaca</i> - Desert date	<i>Fraxinus pennsylvanica</i> - Green ash
<i>Balanites wilsonia</i> - Mkonga, Mdimu- mwitu	<i>Gardenia volkensii</i> - Gardenia
<i>Bauhinia variegata</i> - Camel foot	<i>Grewia discolor</i> - Grewia
<i>Berchemia discolor</i> - Wild almond	<i>Grewia villosa</i> - Grewia
<i>Bischofia javanica</i> - Bishop wood tree	<i>Glericidia sepium</i> - Gliricidia,
<i>Bombax rhodognaphalon</i> - E. A cotton tree	<i>Gmelina arborea</i> - Gmelina
<i>Brachychiton acerifolium</i> - Flame tree	<i>Hagenia abyssinica</i> - African red wood
<i>Brachylaena huillensis</i> - Muhugu	<i>Hakea saligna</i> - Willow leaved hakea
<i>Brachystegia speciformis</i> - Brachestigia	<i>Harungana madagascariensis</i> - Orange milk tree
<i>Caesalpinia volkensii</i> - Ajua	<i>Hyphaene compressa</i> - Doum palm
<i>Calliandra calothyrsus</i> - Caliandra	<i>Hyphaene coriacea</i> - Turkana doum palm
<i>Callistemon citrinus</i> - Bottle brush	<i>Jacaranda mimosifolia</i> - Jacaranda
<i>Callistemon lanceolatus</i> - Bottle brush	<i>Juniperus procera</i> - East African cedar
<i>Callistemon viminalis</i> - Bottle brush	<i>Khaya anthotheca</i> - African mahogany
<i>Callitris robusta</i> - Cypress pine	<i>Kigelia Africana</i> - Sausage tree
<i>Cassia siamen</i> - Cassia	

Lannea allata - Lannea
Lawsonia inermis - Henna tree
Leucaena diversifolia - Leucaena
Leucaena leucocephala - Leuceana
Leucaena trichandra – Leucaena
Marcaranga kilimandscharica
Melia azedarach - China Berry (Melia)
Milletia dura - Milletia
Mimusops kummel - Red milk wood
Moringa oleifera - Moringa
Moringa stenopetala - Local moringa
Newtonia buchananii - E. A Newtonia
Newtonia hildebrandtii - Newtonia
Ocotea usambarensis - E. A Camphor wood
Polyscias kikuyuensis - Polyscias / Mutati
Pyracantha angustifolia - Yellow firethorn
Schinus molle - Pepper tree
Schrebera alata - Wild Jasmin
Sclerocarya birrea - Amarula tree
Senna spectabilis - Golden shower
Sesbania grandiflora - Sesbania
Sesbania sesban - Sesbania / River Bean
Spathodea campanulata - Nandi Flame
Tamarindus indica - Tamarind, Mkwaju
Teclea nobilis - Small-fruited teclea
Tecoma stans - Yellow bells
Terminalia mentalis - Umbrella tree
Terminalia brownie - Terminalia
Terminalia prunoides - Purple-pod terminalia
Terminalia spinosa - Spiny dessert tree
Thevetia peruviana - Yellow oleander
Tipuana tipu - Brazillian rosewood
Trachylobium verrucosum - Gum copal tree
Vitex payos - Black plum
Vitex doniana - Black plum
Ximenia americanum - Wild plum
Zanthoxylum gilletti - Satin wood
Ziziphus mauritiana - Indian plum
Ziziphus mucronata - Buffalo thorn

Group B: Recalcitrant seeds

Podocarpus latifolius - Podo
Prunus Africana - Red stinkwood
Salvadora persica - Muswaki
Syzygium guineenses - Black plum
Trichilia emetica - E.A mahogany
Vangueria madagascariensis - Spanish tamarind
Warbugia ugandensis - EA green wood

Group C: Intermediate seeds

Azadirachta indica - Neem
Garcinia livingstonei- African mangostene
Gardenia volkensii - Common gardenia
Jatropha carcus - Jatropha
Ximenia Americana - Sour plum

Olea capensis - E. A Olive tree
Olea europaea var. Africana - Wild olive
Olea hochstetterei - Olive wood
Osyris Lanceolat - Sandalwood
Parkinsonia aculeate - Jerusalem thorn
Phoenix reclinata - Wild date palm
Piliostigma thonningii - Camel foot tree
Pinus caribaea - Caribbean pine
Pinus radiate - Radiata pine
Pithecellobium dulce - Black beard
Pittosporum viridiflorum - Cape cheesewood
Podocarpus falcatus - Podo/ yellowwood
Polyscias fulva - Polyscias

SECOND SCHEDULE

Form FTSR 1A

(r. 8(1))

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
APPLICATION FOR REGISTRATION AS A FOREST TREE SEED MERCHANT**

To: The Managing Director
KEPHIS
P.O. Box 49592-00100
NAIROBI, KENYA

I/We hereby apply to be registered as a forest tree seed merchant under the name
.....
Postal Address
E-mail Address.....
Telephone Number
Physical Location of the Premises.

I / We wish to deal in:
(Please tick [] / Select where applicable)

- (i) Production
- (ii) Processing
- (iii) Marketing

(1) Merchant

- (i) Do you have adequate and knowledgeable personnel who are conversant with Forest seed matters? Yes/No.
- (ii) Provide a list and their qualifications (**Attach Certified Copies**)
- (iii) Are you a legally registered entity? Yes/No Reg. No....(**Attach Certificate**)

Production

- (i) Do you have adequate land and equipment to handle Forest Tree seed?..... Yes/No
- (ii) Do you have contractual agreement with owners of forest seed sources?... Yes/No
- (iii) Do you have adequate field officers to supervise and advise on all operations of seed source management including seed collection?..... Yes/No.
- (iv) Do you intend to raise nursery seedlings from certified seed?.....Yes/No.
- (v). What will be the source of regenerative materials in case of
 - (1) Seed
 - (2) Tissue Culture
 - (3) Other means

Specify Categories:.....
(Source identified forestry tree seeds, Selected forestry tree seeds, Forestry tree seeds from untested orchards, Tested forestry tree seeds, Vegetative reproductive materials, Tree nursery)

Processing

- (i) Do you have all equipment and machinery necessary to process seed?..... Yes/No
- (ii) Do you have adequate storage space? Yes/No

(iii) Do you have a capacity to print and label packets/containers as required by the regulations? Yes/No

Marketing

- (i) Do you have an appropriate distribution system? Yes/No
- (ii) Do you have registered seed seller/stockist?.....Yes/No
- (iii) Does your seed seller/stockist have an agreement with you for distributing seed on your behalf? Yes/No
- (v) Do they have adequate understanding and knowledge of seed?.....Yes/No
- (vi) Do they have adequate storage facilities?.....Yes/No
- (vii) Do they understand that seed is living and should not be mixed with dangerous chemicals, kept in high humidity in moist floors, and excessive temperatures? Yes/No
- (viii) Do they make sales returns to you? Yes/No
- (ix) Do they know that packets/containers should not be opened, i.e. sell seed in the whole units as packed by you? Yes/No

The seed will be kept in a store where adequate provisions are available to separate the various seed lots and where no other articles will be kept which could have an adverse effect on the quality of the seeds.

At anytime during official working hours, even without previous appointment, I/We will allow the plant inspector (s) entry to the seed store (s) and thereby provide them/him/her with the facilities necessary to carry out the inspection work as laid down in the Forest Tree Seed Regulations. In addition, I/We will send a stock list of all seed lots in our stores on monthly basis or at such a date as can be mutually agreed upon between the Service and ourselves.

I/We enclose the sum of Kenya Shillings (KSh.....) as payment for this registration in form of a cheque payable to the **Managing Director, KEPHIS.**

Declaration:

In signing this application, I/We also declare that I/We are conversant with and shall observe the various clauses and conditions of the Forest Tree Seed Regulations and the Seed and Plant Varieties Act, Cap 326.

Date..... Signature

Note. (I) The Managing Director, KEPHIS shall inform the unsuccessful applicants and shall return their cheque to them.

REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
CERTIFICATE OF REGISTRATION AS A FOREST TREE SEED MERCHANT

S/No. _____ For the Year 20 _____

Company _____

Postal Address _____

Tel.No _____ Email _____

Physical Location of the Premises _____

For the category of

- (i) Production (Source identified forestry tree seeds, Selected forestry tree seeds, Forestry tree seeds from untested orchards, Tested forestry tree seeds, Vegetative reproductive materials, Tree nursery)
- (ii) Processing
- (iii) Marketing

Registration No. _____

Registration is subject to the following conditions.

A registered seed merchant shall ensure that: -

1. It always meets the minimum registration requirements as specified in the Forest Tree Seeds Regulations.
2. At any time will allow the forest tree seed inspector (s) entry to the merchants' premise (s) and/or seed store (s) and thereby provide him/them with the facilities/conditions necessary to carry out the inspection work.
3. The seed will be kept in a store where adequate provisions are available to separate the various seed lots and where no other articles will be kept which could have an adverse effect on the quality of the seeds.
4. The Registration fee is renewed annually

Note: Failure to renew for two consecutive years, shall lead to an automatic loss of status to operate and thereby require a new application in the event that you want to resume operations.

Signature _____ Date _____

Managing Director, KEPHIS

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE
APPLICATION FOR REGISTRATION AS A FOREST TREE SEED STOCKIST
(SEED SELLER)**

To: The Managing Director
KEPHIS
P.O. Box 49592-00100
NAIROBI, KENYA

I hereby apply for seed seller’s license as a (an) agent/ stockist.

Applicant (Business Name)
Address Tel. No. E-mail.....
Proprietor/Owner
County Sub County Division
Location Sub-location
Town/Market/Street..... Plot No.
Nearest Landmark.....
Knowledge and skill of owner (s) (Attach evidence)
Seeds to be sold (forest tree species):
Sources of seeds to be sold
Storage Facilities and Locations (Attach Photos)
Date..... Signature

N.B.: The application to be accompanied with County Forestry Office) approval letter, Seed Merchant’s Recommendation letter and appropriate fee.

FOR OFFICIAL USE ONLY

Application received on
Premises inspected by:.....
Decision: Approved Rejected
Remarks:.....
.....
License No.Date:
Signature

For: **MANAGING DIRECTOR, KEPHIS**

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE
CERTIFICATE OF REGISTRATION AS A FOREST TREE SEED STOCKIST
(SEED SELLER)**

License No.

A seed seller’s license as an agent/stockist is hereby granted to

(Name)

(Address)for trading of the following
forest tree seeds species.....

.....
.....

at (Name of premises)

Year

This license is subject to the following conditions:

1. The seed must at all times meet minimum germination standards.
2. You shall offer for sale only certified seeds accompanied by test certificate.
3. You shall source seed from registered seed merchants only.
4. You shall submit monthly returns of seed stocks to the Merchant
5. Sealed containers shall not be tampered with.
6. Seed will always remain in a cool and dry atmosphere with no direct sunlight.
7. Seed will be kept away from chemicals and such other substances as can be injurious to the seed.
8. Upon licensing the licensee shall:
 - (a) Pay appropriate fee.
 - (b) Renew the license upon expiry.
 - (c) Display seed seller’ license at the premises at all times
 - (d) Allow seed inspectors/analyst access to your premises and seed stores at all times

Date

.....
Managing Director, KEPHIS

REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE
APPLICATION FOR REGISTRATION OF FOREST TREE SEED SOURCE

Date:.....

To: The Managing Director
KEPHIS
P.O. Box 49592-00100
NAIROBI, KENYA

I/We, of physical location
..... email.....Phone number..... do
hereby apply for registration of forest tree seed source and confirm that the site details of the
seed source are as below:

The site is : accessible- the seed source is accessibleYES/NO (*select the applicable
response by circling around it with blue pen*).

Species information

Seed source reference number.....	Seed zone.....
Provenance name.....	
Origin TICK one: Indigenous { }, non-indigenous { }, unknown { }	
Botanical name.....	Common name.....
Purpose/use.....	

Seed source classification

Category of seed source:- Source identified { }, Selected { }, Untested/qualified { } Tested { }
Type of seed source: - Natural Seed Source { }, Stand { }, Seed Orchard { }, Parents of Families { }, Clone { }

Location

a. Country.....	b. Region.....
c. County (ies).....	d. Sub County.....
e. Ward.....	f. Sub location.....
g. Village.....	h. Provenance.....
i. Seed zone,.....	k. Exact coordinates.....
l. Altitude/altitudinal range	

Source description

a. Hectarage.....	b. number of trees per hectare.....
c. Age or year of establishment.....	
d. Phenological periods 50% flowering and fruiting periods.....	
e. Isolation from contaminants (m)	

Ownership

Tenure rights:-public { }, cooperative { }, private { } Others
Name of owner.....

Maintainer

Name.....
Maintenance program Yes () No. ()..... if yes attach

Declaration

I hereby declare that, to the best of my knowledge, the information provided in this form is correct:	
Name	
Signature	
Date	Official Stamp

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE
REGISTRATION CERTIFICATE FOR FOREST TREE SEED SOURCE**

REGISTRATION No.....

To (Name)
of (Address).

In reference to your application dated, the forest tree seed source code referenced number..... is hereby registered and recorded in the Register for forest tree seed sources as pursuant to regulation r.9(1).

This registration is valid from To and subject to compliance to the standards prescribed in the Seeds and Plant Varieties (Forest Tree Seed) Regulations, 2021.

Name:

Signature

**For, MANAGING DIRECTOR
KENYA PLANT HEALTH INSPECTORATE SERVICE**

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
APPLICATION FOR INSPECTION OF FOREST TREE SEED SOURCE**

Date.....

To: The Managing Director
KEPHIS
P.O BOX 49592-00100
NAIROBI, KENYA

I (full name) being the owner/lessee of
hectares of L.R No. situated in the Division of do
hereby apply for collection of seed from the registered forest tree seed source situated at
.....

Attached to this application are responses to the requirements in the inset Table. 10

Table 10; Requirements for collection of seed from registered seed source

Seed Source registration / code	KEPHIS/SS/.....
Family	Family determined in the field, subject to confirmation by determiner.
Genus	Genus determined in the field, subject to confirmation by determiner.
Species	Species determined in the field, subject to confirmation by determiner.
Common/ name	e.g. Sandal wood
Local names(s)	Local vernacular name(s) provided by local community
Local uses	Any indigenous uses or value of the species.
Age of seed source if planted or approximate age in case of naturally growing trees but not planted)	Information from local community or institutional official.
County	The County of seed source
Location	Administrative division (s) below the county
Locality	Descriptive text on the exact site (e.g. 500m behind the Police Station).
Latitude	Latitude in degrees and decimal minutes
Longitude	Longitude in degrees and decimal minutes
Altitude	Altitude in metres recorded using GPS
Habitat type of seed source area	Vegetation type e.g. grassland, bush land, woodland, forest
Habit type	Plant habit. [Tree, Shrub,]
Plant description	Habit of the plant (overall size, growth form, flower colour, armature, smell, exudates, bark characters etc.)
Local frequency	Indication of the frequency of the plant on the site i.e. [Rare,]
Flower phenology	Month of $\geq 50\%$ flowering
Rainfall	Mean annual rainfall of seed source site
Fruit phenology	Month of $\geq 50\%$ fruit maturity
Age (years) at selection time	Local knowledge and planting records of owner
Seed origin	If planted, source of original planting material
Threats	Prevalent threats of the immediate habitat and source that may impact negatively on the survival and productivity of sources
Drainage	Drainage characteristics of the source site
Topography	Overall landscape topography of the sources [Flat, Undulating, Hilly, Mountainous]
Soil texture	[Sand, Sandy loam, Loam, Organic, Clay loam, Clay, Silt]
Number of trees in source	≤ 25 , 26- 50, ≥ 50
Recommended treatments	Any activity that may improve seed productivity e.g. thinning, rouging etc.
Delineated area of source (Ha)	Area in which seed collection will be undertaken
Expected annual production (kg)	Estimate initial and progressive annual productivity

REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
SEED SOURCE INSPECTION RESULTS REPORT

Date.....

Seed Source Owner _____
Species _____
Provenance _____ Locality _____
Hectares _____ Category _____

ITEMS:

- 1. Approximate number of trees in the stand _____
2. Is the source true to type? Yes [] No [] Doubtful []
3. Isolation distance species-(m) from stand of same genus
4. Off-type(s) (describe)
5. Other Species adjacent or within the stand; specify.....
6. Health (Diseases and pests; specify.....
7. General accessibility of the source :Good [] :Satisfactory [] :Not Satisfactory []
8. Estimated annual production (Kg).....
9. Inspection Result: Pending [] : Approved [] :Rejected []
10. Reason for rejection
11. Further Remarks

Signature: Name
Tree Seed Inspector(s)

Witness Name:..... Signature

Date

Official stamp

REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
FOREST TREE SEED SAMPLE SUBMISSION FORM

No.....

A. DETAILS OF SAMPLE (To be provided for by the Seed Merchant)

- 1. Name and Address of the Merchant.....
2. Name of Producer..... Imported from.....Country of Origin
3. Species..... 4. Variety
5. Class
6. Seed Lot Number..... 7. Ref No.
8. Seed Import Permit Number
(In case of import)
9. Weight of the Lot.....No of containers and Size.....
10. Seed dressed with.
.....Chemical
11. Date on which the seed is ready for sampling.....
12. Further remarks (e.g. noxious weeds, seed borne disease observed in the field, seed blends etc.)
.....
Test required.....
13. Premises where the seeds are stored.....
14. Number of samples required.....
15. Number of copies required.....
The cost of tests, to be paid by.....P. O. Box.....
16. Date and signature of the Merchant
Name Signature & Stamp Date.....

B. SAMPLE (To be done by the seed inspector)

- 18. Date of sampling 19. Sample bag Number.....
I certify that this sample was drawn by me in the prescribed manner
Name SignatureDate.....

C. SAMPLE RECEPTION

- 20. Remarks of the sample reception officer in the Seed Testing Laboratory
.....
Name Signature Date.....

- Copies to: 1. Seed Testing Laboratory
2. Technical Administration
3. Inspection Office, seed processing plant
4. Sample book

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
FOREST TREE SEED TEST RESULTS REPORT**

Test Number
Lot Number
Weight of Lot
Species as indicated in the collection form
Batch number

Results of Analysis

Purity (%)	Number of Seeds /Kg	Germination Capacity (%)	Moisture Content (%)	Health Test (Fungi and Pests) (Recommendations)

Signed: Seed analyst..... Date

Checked by..... Date

Official Stamp

<p>REPUBLIC OF KENYA KENYA PLANT HEALTH INSPECTORATE SERVICES (KEPHIS) OFFICIAL SEED TESTING STATION FOREST TREE SEED TESTING REPORT</p>													
Date of Sampling													
Date received													
Lot Number				Ref:				Weight of lot:					
Crop species, Variety		As stated by inspector:											
Country of Origin													
RESULTS OF ANALYSIS													
Purity													
Pure seed (P) %	Inert matter (1) %	Other Crop seed (2) %	Weed seeds (3) %	First count		(Capacity)		Hard %	Fresh Ungerm %	Dead %	Pure germinating seed % $\left[\frac{PxG}{100} \right]$	Moisture %	Test No.
				Days	%	Days	%						
													Any inquiries concerning this test MUST quote this number
Abnormal () %		Broken germ () %											
(1)													
(2)													
(3)													
Special Tests													
Seed dressing:													
Paid				Copies to:									
Unpaid													
Govt.													
<p>Seed Testing Laboratory Kenya Plant Health Inspectorate Service P.O.Box 1679 NAKURU</p>													

REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
MASTER CERTIFICATE FOR FOREST TREE SEEDS

National Register Seed Source registration code	
Species	
Common Name	
Name of Hybrid	
Age of seed source if planted or approximate age in case of naturally growing trees	
County	
Sub-County	
Locality	
Age (years) at selection time	
Provenance (delineated area of source) - Ha	
Date of Collection	
Origin (for Imports)	
Lot Number	
Ref:	
Weight of lot:	
Recommended treatments	
Name of Merchant	
Contact	
Name	
Signature	
Date	Official Stamp

**REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
FOREST TREE SEED STOP SALE ORDER**

Merchant/Stockist/Seed Seller.....

Address

The following lots of seeds are found to be in violation of seed regulations:

Species	No of containers	Quantity (Kg)	Type of violation	Sampled	
				YES	NO

By this notice you are ordered to hold these lot/lots of seed intact at until compliance with the law has been achieved and the seed has been released from this order.

As soon as steps have been taken to remove the **violation**, please advice:

Other Instructions.....

Signed..... Seed Inspector.....Date.....

For. MANAGING DIRECTOR, KEPHIS

All payments must be made in the form of crossed cheques to the Managing Director, KEPHIS

REPUBLIC OF KENYA
KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)
MONTHLY SEED STOCK RECORD FORM

1. Month and Year: _____
 2. Name of Merchant: _____

Forest Tree species	Category of seed	Opening stock on the first day of the month	Quantity of seed locally produced & labelled during the month	Total Quantity imported	Total	Total Quantity sold	Total Quantity sold but still with stockists	Quantity in Kg	
								Total quantity exported	Closing Stock on the last day of the month
1	2	3	4	5	6	7	8	9	10
					(3+4+5)				6-(7+8+9)

Name: _____

Address: _____

Signature: _____

Official stamp: _____

Date: _____

THIRD SCHEDULE (r. 8(1), 10(2), 14(3), 16(6), 17(5), 18(6))

Certification Fees (KSh)

Table 5: Application and Annual Renewal of forest tree seed merchants, stockists and forest tree seed sources

	Application Fees Ksh.	Annual Renewal Fees Ksh.
Forest tree seed merchant	10,000/-	2000/=
Forest tree seed stockist (seed seller)	2,000/=	1,000/=
Forest Tree Seed Source (General Selected and untested)	3000/=	1,000/=
Tested Seed Source	\$1600	1000

Other Fees (KSh.)

Table 6: ... Field Inspection for Seed Collection

	Fees (KSh)
Field Inspection	* 5,000/=

*This is per unit area (Unit= 1 Ha)

Sampling And Sealing Fees

Table 7: Payment for Seed Sampling, Lot Examination, Labelling and Sealing

Forest Tree Species Under Certification	Minimum fees per 1 st 100 Kg Lot	Sampling & Examination Per 100kg lot	Labelling & Sealing/ Packet >=5kg	Labelling & Sealing	Resampling per 100kg
All	990	140	10	15	50

Sampling and Pre-Control Of Imported Seed Fees (Ksh)

Table 8: Fees for Sampling and Pre-Control of Imported seed

Forest Tree Species Under Certification	Minimum fees Per 500kg	Fees / 100 Kg	Fees /1000Kg
All	600	130	730

Laboratory Seed Testing Fees (Ksh) Per Sample

Table 9: Fees for laboratory seed testing (Ksh.)

Forest Tree Species Under certification	Purity, Germination	Moisture Test	*Seed Health	*1000 Seed Count	Vigour Test	Retesting for purity germination
All	1500	500	1000	1000	1000	1000

NB: All inspections shall include a mileage charge at Government Approved Rates per Kilometre

FOURTH SCHEDULE

(r. 10(1),(3),(5),12(5),(6),14(1),(2),(7),16(2),18(7)(c),21(1),23(1)(b))

PART I

Prescribed Standards

Table 2: Minimum Requirements (Standards) for Categories of Seed Source

Parameter	Tested Forest Tree Seed orchard	Untested Established seed sources	Selected seed sources	Selected single trees	General seed source
Area	0.4 Ha	0.4Ha	0.4 Ha	N/A	N/A
Spacing	6 m x 6 m	N/A	N/A	100 m	50 m
Origin of propagation material (Known)	Progeny trials/ selected single trees	Known	N/A	N/A	N/A
Isolation distance from population of the same species/genus	500 m	N/A	N/A	10m	N/A
Number of parental clones	30		N/A	N/A	N/A
Number of ramets per clone	20	20	N/A	N/A	N/A
Mapping of genotypes	Yes	N/A	N/A	N/A	N/A
Number of trees in the seed source	1,000	30	30	30	30
Management plan	Available	Available	Available	N/A	N/A
Implementation of the management plan	Yes	Yes	Yes	N/A	N/A
Record of Year of establishment	Known	Known	N/A	N/A	N/A

For selected, untested and tested categories

- Isolation distance of 20 metres from other contaminants for all self-pollinating plant.
- Isolation distance of 100metres from other contaminant for cross- pollinating plants.
- Isolation distance of 800 metres for all bee/insect pollinated plants.
- Uniformity tolerance.
- True to type general tolerance for self-pollinating, cross-pollinating and bee pollinated.
- General statement of seed units to pest and diseases.

Table 3: Minimum Standards Of Purity, Moisture Content And Germination

No.	Species	Purity %	Moisture Content Range (MC)	Germination % (Range)
1	<i>Acacia xanthophloea</i>	98	7	60
2	<i>Acacia polycantha</i>	98	7	65
3	<i>Acacia senegal</i>	99	7	65
4	<i>Acacia tortilis</i>	99	7	50
5	<i>Albizia coriaria</i>	99	7	65
6	<i>Casuarina equisetifolia</i>	95	8	65
7	<i>Cordia africana</i>	99	8	75
8	<i>Cupressus lusitanica</i>	90	8	40
9	<i>Eucalyptus camaldulensis</i>	90	8	75
10	<i>Eucalyptus grandis</i>	90	8	75
11	<i>Eucalyptus saligna</i>	90	8	75
12	<i>Eucalyptus urophylla</i>	90	8	75
13	<i>Grevillea robusta</i>	90	8	75
14	<i>Maesopsis eminii</i>	99	10	80
15	<i>Markhamia lutea</i>	98	8	60
16	<i>Milicia excelsa</i>	97	8	40
17	<i>Pinus patula</i>	98	9	75
18	<i>Senna siamea</i>	98	7	60
19	<i>Tamarindus indica</i>	99	11	75
20	<i>Vitex keniensis</i>	99	8	50
21	<i>Other Species</i>			

PART II – REGIONAL PROVENANCES

The Region of Provenance (RoP) for a forest species is an area (or group of areas) where ecological features are homogeneous and where a subject to sufficiently uniform ecological conditions in which plants with similar phenotypic or genetic characters are found. These are used as a guide for planting indigenous trees for better adaptation.

Table 4: Regional Provenances

Zone	Forest type	Climatic Conditions	Altitude (m)	Mean annual Temp. (° C)	Mean Annual Rainfall (mm)
1	Moist forest (Afro –alpine highland)	Humid cold to very cold	3,050	< 10	1,100 – 2,700
2	Moist forest (Upper highland)	Humid, very cold	2,750 – 3,050	10 -12	1,100 – 2,700
3	Moist forest (Upper highland)	Humid, cool	2,450 – 2,750	12 - 14	1,100 – 2,700
4	Moist forest (Lower highland)	Humid, fairly cool	2,150 – 2,450	14 - 16	1,100 – 2,700
5	Moist forest (Lower highlands)	Humid, cool temperate	1,850 – 2,150	16 - 18	1,100 – 2,700
6	Moist forest (Midlands)	Humid, warm temperate	1,200 – 1,850	18 - 22	1,100 – 2,700
7	Moist and dry forest (Upper highlands)	Sub humid very cool / cool	2,450 – 3,050	10 - 14	1,000 – 1,600
8	Moist and dry forest (Lower highlands)	Sub humid, cool temperate	1,850 – 2,450	14 - 18	1,000 – 1,800
9	Moist and dry forest (Upper midlands)	Sub humid, warm temperate	1,200 – 1,850	18 - 22	1,000 – 1,600
10	Moist and dry forest (Lower midlands/ lowlands)	Sub humid, warm to very hot	0 – 1,200	22 - 30	1,000 – 1,600
11	Dry forest and moist woodlands	Sub humid, cool	2,150 – 2,450	14 - 16	800 – 1,400
12	Dry forest and moist woodland (Lower highlands)	Semi humid, cool temperate	1,850 – 2,150	16 - 18	800 – 2,700
13	Dry forest and moist and moist woodland (Upper midlands)	Semi humid, warm temperate	1,200 – 1,850	16 - 18	800 – 1,400
14	Moist and dry forest (Lower midlands, lowlands)	Semi humid warm to very hot	0 – 1,200	22 - 30	800 – 1,400
15	Dry woodland and bushland (Lower highlands)	Semi humid and semi arid cool	1,850 – 2,450	14 - 18	600 – 1,100
16	Dry woodland and bushland (upper midland)	Semi humid to semi arid, warm temperate	1,200 – 1,850	18 - 22	600 – 1,100
17	Dry woodland and bushland (lower midlands)	Semi humid to semi arid, warm to very hot	0 – 1,200	22 - 30	600 – 1,100
18	Bushland (Lower highlands)	Semi arid cool to cool temperate)	1,850 – 2,450	14 - 18	450 – 900
19	Bushland (Upper midland)	Semi arid, warm temperate and warm	1,200 – 1,850	12 - 22	450 – 900
20	Bushland (Upper Midland, lowland)	Semi arid, warm to very hot	450 – 900	22 - 30	450 - 900
21	Arid, warm to fairly warm	Bushland and scrubland (upper midland)	1,200 – 1,850	18 - 22	300 - 550
22	Arid, warm to very hot	Bushland and scrubland (Lower midland, lowland)	0 – 1,200	22 - 30	300 - 550
23	Very arid hot to very hot	Desert scrub (Lowlands)	0 – 900	24 - 30	150 – 350

PART III –SEED SOURCE REGISTER MINIMUM INFORMATION

The Register

The National Register of Registered seed sources will contain the following minimum information:

1. Species information
 - a. Seed Source registration code
 - b. Seed zone:
 - c. Provenance name
 - d. Origin: Indigenous, non-indigenous, unknown
 - e. Botanical name
 - f. Common name
 - g. Purpose/use
2. Seed source classification
 - a. Category of seed source (Source identified, Selected, Untested/qualified Tested
 - b. Type of seed source (Natural Seed Source, Stand, Seed Orchard, Parents of Families, Clone
3. Location
 - a. Provenance
 - b. Seed zone,
 - c. Ward
 - d. Sub county
 - e. County
 - f. Conservancy
 - g. Exact coordinates
 - h. Altitude/altitudinal range
4. Source description
 - a. Hectarage (number of trees per hectare)
 - b. Age or year of establishment or approximate age in case of naturally growing trees
 - c. Phenological periods (flowering and fruiting periods)
5. Ownership
 - a. Tenure rights (public, cooperative, private)
 - b. Name of owner
6. Maintainer.
 - a. Name
 - b. Maintainer program

PART IV – SEED PROCESSING PROTOCOLS

Seeds are sensitive living organisms; careful handling is essential for maintenance of their viability. The method of processing depends on the type of fruit and on the physiological characteristics of the seed.

Seed Extraction From Pulpy Fruit

- Extract as soon as possible after collection.
- Rub off the pulp from ripened fruits followed by separation of seed and pulp by washing in running water. The duration of seeds drying is crucial to avoid deterioration.
- Extract fruits with hard nuts and pulp by pounding with a pestle and mortar and washing off the pulp in running water. Apply just adequate force to avoid damaging or injuring the seed.

Extraction Of Recalcitrant Seed From Pulpy Fruit

Desiccation sensitive seeds are usually large – fruited and pulpy. Due to their tender seed coat they require gentle rubbing by hands when ripe.

Seed Extraction From Non-Pulpy Fruits.

These categories of seeds are desiccation tolerant and therefore drying can be used as an extraction process.

Drying

Most seeds is non-pulpy fruits can easily be extracted by drying them in the shade, sun or under artificial heat, not exceeding 45⁰C.

- Use artificial heating systems, with well-managed controls.
- Dry under direct sunlight or shade and the seeds must be spread in thin layers with good aeration and turning frequently and thoroughly.
- Seeds must never be directly covered by materials that could facilitate suffocation or create a “greenhouse” effect over the seeds (polythene, canvas etc.) Cover the drying fruits during nights to avoid moisture re-absorption.
- While drying, seeds should be protected from predators like birds and rodents, especially in cases where the drying is undertaken in the open.

Tumbling

Fruits of some species, especially cones of conifers, need separation by mechanical means after drying. This can be done by turning them over and over in a cone tumbler.

Threshing

This can be done either manually or by use of a mechanical thresher. The resultant chaffs are then separated from seeds.

Using a concrete mixer

- Use concrete mixers to extract seeds of species whose fruits have sticky and with a dry pulp.
- Dry the fruits under shade up to moisture content of about 15 - 19%.
- Follow by drying in the sun to about 10% moisture content.
- Put the dry fruits in a concrete mixer with ballast at the ration of 1:2
- Tumble the mixture for about 6 hours to erode the pulp from the fruit.

Seed Cleaning

It involves the removal of inert matter, (pieces of pulp, fruit walls, twigs) damaged or empty seeds, and in some cases, part of the material used for extraction.

Hand Sorting

Pick out manually clean, sound seeds or the impurities from an extracted seed lot.

Floatation

Pour the seed and impurities into a drum of water. Sieve off the floating material.

Blowing and Winnowing

Blowing also works on the principle that impurities are lighter than seeds and can be blown away by a stream of air.

- Use a mechanical blower.

- Where no mechanical blowers are available spread the seeds on the floor of a room and facilitate by placing a fan in the room.
- Winnowing uses the same principle, throwing the seeds into the air where the impurities are blown away and catching the seeds again with a tray.

Sieving

Where the sizes of the seeds and the impurities are different, use sieves to clean the seed lot. Ensure availability of different sizes and shapes of sieve for different species.

De - winging

De – wing all winged seeds.

For small quantities of seed, de –winging may be done manually, either by rubbing seeds between the hands or against a screen or roughed surface; or by hand rubbing them in a cloth-bag or rolling them between two cloth sheets.

For large quantities of seeds use need mechanical de- wingers such as a concrete mixer.

PART V

Minimum Criteria For Selection And Registration of A Forest Seed Source

Objective: To select superior and register seed sources for the purpose of high quality seed production.

The exercise involves the inspection and approval of the sources by authorised officers. The officers evaluate and verify the technical aspects of the source to ascertain its suitability as a seed source. The officers also provide remedial measures before making recommendations for registration and approval.

1. ITEMS FOR CONSIDERATION

1. Accessibility
The seed source should be accessible.
2. Provenance And Seed Zone
Consider the seed source from designated provenance and seed zones.
3. Origin
The clear designation of the stand as material of indigenous origin, of non-indigenous origin or of unknown origin must be determined.
4. Location and Isolation
The source may be situated in a natural forest, plantations, or in the farmland Stands need to be situated at a sufficient distance from poor stands of the same species or from stands of a related species or variety to avoid cross pollination with the species being considered.
5. Effective Size Of Population
Stands must consist of one or more groups of trees, well distributed and sufficiently numerous to ensure adequate inter-pollination. To avoid the unfavourable effects of inbreeding, there must be a sufficient number of individuals on a minimum area.
6. Age and Development

Stands need to consist of trees, which have reached an age at which acceptance criteria can be clearly assessed. This shall be the stage at which the target species starts to flower.

7. Uniformity

Each tree, which comprises the stand, must show a normal degree of variation in morphological characters.

8. Adaptation

There must be evidence that the material is acceptably adapted to the region of provenance or seed zone altitude band for which registration is sought.

9. Health and Resistance

Stands should in general be healthy and show, in the place- where they are growing, maximum resistance to harmful organisms and to adverse external conditions (other than resistance to damage by air pollution).

10. Volume Production

Where volume production is an essential criterion for approval it must be superior to the accepted mean under similar ecological conditions.

11. Wood Quality

This will be taken into account and may in certain circumstances be an essential criterion.

12. Form or Growth Habit

Proposed stands need to show particularly good morphological features; in particular straightness and circularity of stem, vitality, branching habit, small size of branching, natural pruning and conformity to end-use. Forked trees and those showing spiral grain are not suitable.

13. Additional for sources to be considered under Untested and Tested Categories.

- i. Consider the documented quality attributes if not tested.
- ii. Consider official data of genetic quality attributes.
- iii. Consider in addition the type, objective, crossing design and field layout, components, isolation and location of the seed orchard and parents of families.
- iv. Consider in addition the objective, crossing design and pollination system, components, isolation and location of the parents.

(a) General

While considering the tests, tests set up for the approval of tested seed sources are to be prepared, laid out, conducted and their results interpreted in accordance with internationally recognised procedures. For comparative tests, the reproductive material under test must be compared with one or preferably several approved or pre-chosen standards.

(b) Characters to be examined

- (i) Tests must be designed to assess specified characters, which must be indicated for each test.
- (ii) Weight shall be given to adaptation, growth, biotic and abiotic factors of importance. In addition, other characters, considered important in view of the intended specific purpose, shall be evaluated in relation to the ecological conditions of the region in which the test is carried out.

(c) Documentation

Records must describe the test sites, including location, climate, soil, past use, establishment, management and any damage due to abiotic/biotic factors. Age of the material and results at the time of the evaluation must be recorded.

- (d) Setting up the tests
 - (i) Each sample of reproductive material shall be raised, planted and managed in an identical way as far as the types of plant material permit.
 - (ii) Each experiment must be established in a valid statistical design with a sufficient number of trees in order that the individual characteristics of each component under examination can be evaluated.
- (e) Analysis and validity of results
 - (i) The data from experiments must be analysed using nationally and internationally recognised statistical methods and the results presented for each character examined.
 - (ii) The methodology used for the test and the detailed results obtained shall be made freely available.
 - (iii) A statement of the suggested region of probable adaptation within the country in which the test was carried out and characteristics which might limit its usefulness must also be given.
 - (iv) If during testing it is proven that the reproductive material does not possess, at the least, the characteristics of:
 - the seed source or
 - similar resistance of the seed source to harmful organisms of economic importance, then such reproductive material shall not be approved as tested.

2. REQUIREMENTS FOR GENETIC EVALUATION OF COMPONENTS OF SEED SOURCE

- (a) The components of the following seed source may be genetically evaluated: seed orchards, parents of family(ies), clones and clonal mixtures.
- (b) Documentation
 - The following additional documentation is required for approval of the seed source
 - (i) the identity, origin and pedigree of the evaluated components;
 - (ii) the crossing design used to produce the reproductive material used in the evaluation tests.
- (c) Test procedures
 - The following requirements must be met—
 - (i) the genetic value of each component must be estimated in two or more evaluation test sites, at least one of which must be in an environment relevant to where the reproductive material will be recommended;
 - (ii) the test period should be of sufficient duration for the tested characteristics to be expressed.
 - (iii) the estimated superiority of the reproductive material to be marketed shall be calculated on the basis of these genetic values and the specific crossing design; and
 - (iv) evaluation tests and genetic calculations must be approved by the Services.
- (d) Interpretation
 - (i) The estimated superiority of the reproductive material shall be calculated against a reference population for a character or set of characters.
 - (ii) It shall be stated whether the estimated genetic value of the reproductive material is inferior to the reference population for any important character.

3. REQUIREMENTS FOR COMPARATIVE TESTING OF REPRODUCTIVE MATERIAL

- (a) Sampling of the reproductive material
 - (i) The sample of the reproductive material for comparative testing must be truly representative of the reproductive material derived from the seed source to be approved.

- (ii) Sexually produced reproductive material for comparative testing shall be:
 - harvested in years of good flowering and good fruit/seed production; artificial pollination may be utilised;
 - harvested by methods that ensure that the samples obtained are representative.
- (b) Standards (Checks)
 - (i) The performance of standards used for comparative purposes in the tests should, if possible,
 - have been known over a sufficiently long period in the region in which the test is to be carried out.
 - Represent material that has been shown to be useful at the time that the test starts, and in ecological conditions for which it is proposed to certify the material.
 - come as far as possible from stands selected according to the criteria or from seed source officially approved for production of tested material.
 - (ii) For comparative testing of artificial hybrids, both parent species must, if possible, be included among the standards.
 - (iii) Whenever possible several standards are to be used. When necessary and justified, standards may be replaced by the most suitable of the material under test or the mean of the components of the test.
 - (iv) The same standards will be used in all tests over as wide a range of site conditions as possible.
- (c) Interpretation
 - (i) A statistically significant superiority as compared with the standards must be demonstrated for at least one important character.
 - (ii) It will be clearly reported if there are any characters of economic or environmental importance which show significantly inferior results to the standards and their effects must be compensated for by favourable characters.

Where comparative tests or genetic evaluation has not been concluded, but provisional results show that the seed production unit is likely to meet the requirements for approval once tests are complete, a conditional approval may be granted and may last for a period of up to 10 years.

FIFTH SCHEDULE**(r.12(2), 21(1),(2), 23(1)(b))****Seeds That Shall Undergo Mandatory Certification**

<i>Scientific name</i>	Local name
<i>Scientific Name</i>	Common /Local Name
<i>Acacia senegal</i>	Gum Arabic tree
<i>Acacia tortilis</i>	Umbrella thorn
<i>Casuarina equisetifolia</i>	Australian pine tree/Whistling pine tree
<i>Cupressus lusitanica</i>	Mexican cypress
<i>Eucalyptus camaldulensis</i>	River red gum tree
<i>Eucalyptus grandis</i>	Flooded gum/Rose gum tree
<i>Eucalyptus saligna</i>	Blue gum/Sydney blue gum
<i>Eucalyptus urophylla</i>	Timor white gum
<i>Grevillea robusta</i>	Silk oak/Silver oak
<i>Maesopsis eminii</i>	Umbrella tree
<i>Markhamia lutea</i>	Siala (Luo)/Nile trumpet/Nile tulip
<i>Mellia volkensii</i>	Melia tree/ Mukau (Kamba)
<i>Milicia excelsa</i>	African teak
<i>Pinus patula</i>	Patula pine/Mexican weeping pine
<i>Spathodea nilotica</i>	Nandi Flame
<i>Vitex keniensis</i>	Meru Oak

SIXTH SCHEDULE**(reg.12(4))****1. Categories Seed Sources****a) General Seed Source**

The plants should be growing wild in a mixed species.

There should be no human intervention or derived or subjected to plant breeding.

The provenance should be known and documented (the source to be within approved provenance or seed zone).

The plants are mostly indigenous.

The chosen source should be showing adaptability to the environment.

The trees should demonstrate resistance to pests and disease.

The types of units recognized in this category are stands and natural seed sources.

b) Selected Seed Sources

These stands are planted for other uses but are re-designated for seed production.

There is human intervention through selection but not derived or subjected to plant breeding.

The provenance should be known and documented (the source to be within approved provenance or seed zone).

The species could be either indigenous or exotic trees.

The species in the stand is typically one.

In case of a mixed forest, then single trees can be selected as a source of seed.

Attributes are based on phenotypic characteristics, seed productivity, good growth and health.

End use requirements will be given higher priority in registration.

The chosen source should be showing adaptability to the environment

The trees should demonstrate resistance to pests and disease

Their selection as seed production units is based on seed productivity, good growth and health.

The types of units recognized in this category are stands

c) Untested Forest Tree Seed orchards:

These are seeds sources, which are established from, improved and selected materials and therefore give promise of improved quality. These comprise of germplasm collected from selected mother trees

These are from tree improvement and breeding programs.

This could be either indigenous, exotic trees or hybrids.

The variety in the orchard is typically one.

The attributes are documented but not tested

Superiority of the individuals in the stand compared to other material of the same species in the same ecological zone is better;

The orchard should be isolated from inferior crossing species

The types of units recognized in category are seed orchards, families of parents and clones

d) Tested Forest Tree Seed orchards

These are seed sources established from genetically improved materials that provide and show genetic superiority proven by comparative tests.

There is official data to prove genetic superiority to acceptable standards.

2. Types of Seed Sources (Units)

Natural seed sources describe all material, which may range from a single tree to any collection of trees selected for seed production within a region of provenance or natural forests or farmlands, or seed zone.

Stands are specifically defined areas or groups of trees with identified boundaries with sufficient uniformity.

Seed orchards and parents of families are sources based on known individuals with specific characteristics derived from tree breeding programmes. They are controlled, managed with known frequency of seed production. The output is true seed.

Clones and clonal mixtures are also individual trees from breeding programmes, but the forest reproductive material will be produced through vegetative propagation.

Made on the, 2021

PETER MUNYA,
Cabinet Secretary for Agriculture, Livestock, Fisheries and Co-operatives.

