



དཔལ་ལྷན་འབྲུག་གཞུང་། གསོ་བ་རྒྱན་ལག་ འབྲུག་བཟའ་ཚས་དང་སློན་རིགས་དབང་འཛིན།

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INSPECTION SERVICES

CHECKLIST FOR SEED CERTIFICATION

A. Farm Information:

1. Name of registered Nursery:
2. Address:

3. Contact grower information:

 - 3.1 Village:
 - 3.2 Gewog:
 - 3.3 Dzongkhag:

4. Source of seed:
5. Total acreage under production:
6. Register grower Farm
7. Acreage of the field no. inspected:
8. Previous crop: Isolation distance:
9. Stage of crop at the time inspection:
10. Type of Inspection - Initial/Re - inspection (tick or underline the relevant one)
11. Duration: Start time: End time:

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CHECKLIST FOR SEED CERTIFICATION

Clause. No	Requirements	Ye s	No	NA	Inspector's Comments	Compliance Status
1. SPECIFIC SEED STANDARDS FOR CEREAL, LEGUMES AND OILSEED CROPS						
1.1	Land requirement: Land to be used for seed production is free of volunteer plant.					
1.2	Field Standards: The isolation distance meets the relevant specification for the crop.					
1.3	Seed Standards: the crops grown are uniform of same genetic identity					
2. SPECIFIC SEED STANDARDS FOR TUBER CROPS						
2.1	Fields/plot for multiplication should be free of wart and bacterial wilt incidences.					
2.2	The area has to be free from virus transmitting aphid.					
2.3	The buffer zone of at least 3m should be maintained.					
2.4	A record on crop rotation to avoid volunteers' plants and remaining tubers of previous season from mixing with the planted seed has to be maintained					
2.5	The farm/plot from off types plants					
2.6 Requirement of Seed tubers						
2.6.a	The seed tubers should not weigh less than 35 grams and not more than 65 grams.					
2.6.b	The seed lot should be reasonably clean and free from stones, soil, and firm with characteristic eyes, color and shape of the variety.					
2.6.c	The proportion of tubers with cuts and bruises, cracks and other mechanical damages should not exceed 3 % by count.					
2.6.d	The seed tubers should be free from damages caused by insects and worms and should be free from late blight, dry or wet					

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	rots, charcoal rot, wart, black heart and freezing injury.					
3. SPECIFIC SEED STANDARDS FOR YACON CROP (GROUND APPLE (<i>Smallanthus sonchifolius</i>))						
3.1	Rhizome crown should be broken or cut into pieces of propagules					
3.2	Cut surface on each propagule should be as minimum as possible to avoid desiccation in the field.					
3.3	Each propagule should have 4-5 growing tips.					
3.4	Each propagule should be not less than 200gm.					
3.5	Propagules should be firm, fresh and un-sprouted. It should not be rubbery and sprouted.					
3.6	Propagules should be clean and free from soil.					
4. GENERAL SEED STANDARDS FOR FRUIT CROPS AND PLANTING MATERIALS						
4.1 Requirements for Seedlings and grafted plant						
4.1.a	The seedlings should have strong and well-established root system without any deformities.					
4.1.b	The stem diameter of the planting material should be at least 10-15 mm above the graft / bud union.					
4.1.c	The height of the seedlings should be 0.6-1m from the first lateral roots.					
4.1.d	The height of the grafted planting materials should be at least 0.6-0.8 m from the first lateral roots.					
4.1.e	The graft union must be at least 10-15 cm from the first lateral roots.					
4.1.f	The planting material should have a straight trunk.					
4.1.g	The seedlings/grafted planting materials should be free from visible pests and diseases.					

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4.1.h	The planting materials should be treated with appropriate insecticide and fungicide prior to distribution.					
4.1.i	The planting materials should be raised from notified/released varieties and properly labeled.					
4.1.j	The graft union should be properly established					
4.2 Requirement for Raising Mother Plants						
4.2. a	The mother plants should be certified by certifying agency prior to the collection of seeds and scion woods.					
4.2.b	The mother plants for seeds collection should be inspected at least once a year.					
4.2.c	The mother plants for scion wood collection should be inspected at least twice a year.					
4.2.d	The prescribed scheduled spray records are maintained.					
4.2.e	There should be a record of scheduled spray.					
5. SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS						
A. CITRUS (Mandarin, Sweet Orange, Lime, Lemon, Pomelo, Kumquat, Grapefruit)						
5.A.1.	Requirement of Nursery Site and Structure for Raising Citrus Crops					
5.A.1.a	The nursery site should be above 1200 m above sea level.					
5.A.1.b	The nursery site should be latest 1 km away from the citrus orchards.					
5.A.1.c	The nursery sites must be devoid of field standing citrus trees and any hosts of HLB and Psyllids.					
5.A.1.d	All citrus planting materials including the bud wood's daughter trees should be raised under insect-proof structures with double entryways.					
5.A.1.e	The nursery media used should be completely sterilized and free from soil borne pests and diseases.					

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5.A.1.f	All planting materials should be containerized and grown in raised benches					
5.A.2 Requirement of Root stock						
5.A.2. a	Rootstock(s) should be a released or notified rootstock variety					
5.A.2.b	The seeds for rootstocks should be collected from a disease-free mother tree					
5.A.2.c	The appropriate seed treatment should be strictly followed as recommended by NPPC.					
5.A.2.d	The seeds should be sown in raised seedbed, seed trays, or container.					
5.A.2.e	The seedlings should be transplanted into container/polypots when the seedlings attain 3-4 leaves.					
5.A.2.f	The seedlings with deformed main stem and bent/crooked/J-root must be completely discarded.					
5.A.2.g	The diameter of the rootstock should be a minimum of 10mm at the time of grafting.					
5.A.3 Requirement of Seed raised from seeds						
5.A.3.a	The seeds should be collected from released and notified mother trees free from diseases.					
5.A.3.b	The seeds should be sown in raised seedbeds after recommended seed treatments					
5.A.3.c	Seedling shall be of genetically pure in absolute terms.					
5.A.3.d	The planting material should be at least one-year old at the time sale.					
5.A.3.e	The planting material should be 0.8-1m tall and 6-10mm girth at the base.					
5.A.3.f	The seedling must be of single stem and have strong and well-developed root system.					
5.A.3.g	The seedling lot shall be free of deformed main stem and bend/crooked/J-roots.					



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5.A.3.h	The material must be grown in container/polypots and raised in benches.					
5.A.3.i	The source of the seeds should be labeled and their record maintained.					
5.A.3.j	The material should be certified free from viruses, canker, greening and other known pests and diseases.					
5.A.3.k	The lot, seedling not conforming to specified size shall not exceed 5.0% (by number)					
5.A.4 Requirement of Seedling from Grafted						
5.A.4.a	The rootstock and scion wood should be sourced from released and notified varieties					
5.A.4.b	The scion/bud wood source trees should be registered and tested at least once in two years and certified free from graft transmissible diseases.					
5.A.4.c	Both rootstock and scion wood should be genetically pure in absolute term and free from graft transmissible diseases.					
5.A.4.d	The overall height of the plant should range from 40-60 cm at the time of sale.					
5.A.4.e	The diameter of the grafts at 10cm above the graft union should range from 1.01.25 cm.					
5.A.4.f	The graft should have preferably single stem and have strong and well-established root system.					
5.A.4.h	The grafted sapling should be free from rootstock sprouts/suckers.					
5.A.4.i	The source of the bud wood and rootstock should be properly labeled and recorded.					
5.A.4.j	The grafts should be maintained completely free of flowers/fruits.					
5.A.4.k	The material should be free from viruses, canker, HLB and other known pests and diseases at the time of sale.					

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5.A.4.1	In the planting material lot, materials not conforming to specified size shall not exceed 5.0% (by number).					
Clause. No	SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS					
B. TEMPERATE FRUITS (Apple, Pear, Peach, Persimmon, Plum, Almond, Cherry, Apricot, Kiwi)						
5.B.1 Requirement of Rootstock (seedling Rootstocks)						
5.B.1.a	The seeds for rootstocks should be collected from a disease-free mother tree.					
5.B.1. b	The appropriate seed treatment should be strictly followed as recommended					
5.B.1.c	The seeds should be sown in raised beds.					
5.B.1. d	The diameter of the rootstock should be minimum of 10 mm at the time of grafting.					
5.B.2 Requirement of Clonal Rootstock						
5.B.2. a	Land to be used for clonal propagation shall be free from volunteer plants					
5.B.2. b	Clonal Rootstock should be free from pests and disease					
5.B.2.c	The diameter of the rootstock should be minimum of 10 mm at the time of grafting.					
5.B.3 Requirement of Grafted seedling						
5.B.3.a	All saplings shall be produced by asexual methods of propagation.					
5.B.3.b	The scion/bud wood and rootstock used for propagation should be collected from the released or notified varieties.					
5.B.3.c	Both rootstock and scion wood should be genetically pure and free from graft transmissible diseases.					
5.B.3.d	The source and details of the bud wood/scion wood and rootstocks should be properly labeled.					
5.B.3.e	The grafted planting material should meet the following specified qualities:					
5.B.3.f	The diameter of the rootstock should range from 0.50 - 1.0 cm					

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5.B.3.g	The diameter of the grafted plant at 10 cm above the graft union should range from 0.5 – 0.75 cm					
5.B.3.h	The height of the grafted plant should be 50 cm – 100 cm.					
5.B.3. i	The grafted sapling should be free from suckers e. The saplings with deformed stem & damaged roots should be discarded					
5.B.3.j	In the sapling lot, saplings not conforming to specified size shall not exceed 5.0% (by number)					
5.B.3.k	The uprooted saplings should be treated with fungicides and properly packed with mosses and gunny bags, and labeled prior to transportation.					
5.B.3.l	The saplings should be free from other known pests and diseases.					
Clause. No	SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS					
C. TEMPERATE NUTS (Walnut and Chestnut)						
5.C.1 Requirement for Rootstocks						
5.C.1.a	The seeds for rootstocks should be collected from a disease-free mother tree.					
5.C.1.b	The appropriate seed treatment should be strictly followed as recommended					
5.C.1.c	The seeds should be sown in raised beds.					
5.C.1.d	The diameter of the rootstock should be minimum of 15 mm at the time of grafting.					
5.C.1.e	Rootstock should be at least one year					
5.C.1.f	The stem should be straight and without deformities.					
5.C.2 Requirement of Grafted planting materials						
5.C.2.a	The scion wood and rootstock used for propagation should be of the released or notified varieties.					



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5.C.2.b	The scion wood should be collected from disease free mother plants					
5.C.2.c	The diameter of the grafted plant at 10 cm above the graft union should be minimum of 1 cm.					
5.C.2.d	The height of the grafted plant should be minimum of 60 cm					
5.C.2.e	The grafted sapling should be free from suckers					
5.C.2.f	The saplings with deformed stem & damaged roots should be discarded					
5.C.2.g	In the sapling lot, saplings not conforming to specified size shall not exceed 5.0% (by number)					
5.C.2.h	The uprooted saplings should be treated with fungicides and properly packed with mosses and gunny bags, and labeled prior to transportation.					
5.C.2.i	The saplings should be free from other known pests and diseases.					
D.SUB-TROPICAL FRUITS (Mango, Avocado, Litchi, Guava, Pomegranate, Jackfruit, Pecanut)						
5.D.1 Requirement for Rootstock						
5.D.1.a	The seeds for rootstocks should be collected from a disease-free mother plant.					
5.D.1.b	The appropriate seed treatment should be strictly followed as recommended.					
5.D.1.c	The seeds should be raised in polypot.					
5.D.1.d	The diameter of the rootstock should be minimum of 10 mm at the time of grafting.					
5.D.1.e	Rootstock should be at least one year					
5.D.1.f	The stem should be straight and without deformities.					
5.D.2 Requirement of seedling from Grafting						
5.D.2.a	The scion wood and rootstock used for propagation should be of the released or notified varieties.					
5.D.2.b	The scion wood should be collected from disease free mother plants					

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5.D.2.c	The diameter of the grafted plant at 10 cm above the graft union should be minimum of 0.75 cm.				
5.D.2.d	The height of the grafted plant should be minimum of 60 cm.				
5.D.2.e	The grafted sapling should be free from suckers.				
5.D.2.f	The saplings with deformed stem & damaged roots should be discarded.				
5.D.2.g	In the sapling lot, saplings not conforming to specified size shall not exceed 5.0% (by number).				
5.D.2.h	The saplings should be free from other known pests and diseases.				
5.D.2.i	The saplings should be tagged and labeled prior to distribution.				
5.D.3 Requirement Seedling through layering:					
5.D.3.a	The sapling should be produced from disease free mother plants.				
5.D.3.b	The sapling should have well developed root system.				
5.D.3.c	The stem should be straight and free from deformities.				
5.D.3.d	The height of the sapling should be minimum of 60 cm.				
5.D.3.f	The diameter of the sapling 10 cm above first lateral root should be 0.75 cm.				
5.D.3.h	The sapling should be free from other known pest and diseases.				
5.D.3.i	In the sapling lot, saplings not conforming to specified size shall not exceed 5.0% (by number).				
5.D.3.j	The saplings should be treated with fungicides and properly raised in polypot and labeled prior to distribution.				
Clause. No	SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS				
E. OTHER FRUIT CROPS (Areca nut, Banana, Pineapple, Passion fruit, Dragon fruit, Grapes, Papaya, Fig)					
5.E.1 Requirement for seed propagation					

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5.E.1.a	The seeds should be collected from disease free mother plants.					
5.E.1.b	The seeds collected should be from released and notified varieties.					
5.E.1.c	The seed should be treated with recommended fungicides prior to sowing.					
5.E.1.d	The seedling should be at least one year except for areca nut, which should be three years.					
5.E.1.e	The minimum height of the seedling should be 50cm - 1m.					
5.E.1.f	The seedling should be free of known pest and diseases.					
5.E.1.g	The seedling should be tagged and labeled prior to distribution.					
5.E.2 Requirements Seedling through Suckers/Tissue Culture (Banana and Pineapple):						
5.E.2.a	The suckers/explants should be collected from disease free mother plants.					
5.E.2.b	The suckers/explants collected should be from released and notified varieties.					
5.E.2.c	The planting material should attain at least one year.					
5.E.2.d	The seedling should be free from known pest and diseases.					
5.E.2.e	The seedling should be tagged and labeled prior to distribution.					
5.E.3 Seedling through cuttings (Grapes and Dragon fruit, Tea):						
5.E.3.a	The cuttings should be collected from pest and disease-free mother plants.					
5.E.3.b	The cuttings should be from released and notified varieties.					
5.E.3.c	The sapling should have strong and healthy root system.					
5.E.3.d	The sapling should be at least one year old.					
5.E.3.e	The sapling should be free from known pest and diseases.					
5.E.3.f	The seedling should be tagged and labeled prior to distribution.					

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Clause. No	SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS					
F. CARDAMOM (<i>Amomum Subulatum Roxb.</i>)						
5.F.1. Slips for Vegetative Propagation						
5.F.1.a	The planting slips should of healthy disease free.					
5.F.1. b	The cardamom slips or planting material should consist of rhizomes/bulbs/slips along with 1-2 of 2-3 immature tillers/vegetative buds.					
5.F.1.c	Cardamom slips should be free from Foorkey and Chirkey viral diseases or any other diseases such as wilt, rotting and root knot.					
5.F.1. d	The planting material is propagated through seeds and tissue culture.					
5.F.1. e	The plots should be free from volunteer plants of other varieties and wild cardamom.					
Clause. No	SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS					
G. TURMERIC (<i>Curcuma longa L.</i>)						
5.G.a	Soil should be loose, arable and offer minimum resistance to rhizome development.					
5.G.b	Soil depth 30 cm or more, high organic matter of acidic soil.					
5.G.c	The plot or land should be free Pythium sp., Pseudomonas solanacearum, and Meloidogyne incognita.					
Clause. No	SPECIFIC SEED STANDARDS FOR FRUIT CROPS, MAPS AND PLANTING MATERIALS					
H. GINGER (<i>Zingiber officinale Rose</i>)						
5.H.a	Partial shade with gentle sloppy landscape					
5.H.b	Soil depth 30 cm or more, high organic matter and pH of 6-6.5 are favorable.					
5.H.c	Land should be free from volunteer plants					
Recommendation:						

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དཔལ་ལྷན་འབྲུག་གཞུང་། གསོ་བ་ལྷན་ཁག འབྲུག་བཟའ་ཚས་དང་སློན་རིགས་དབང་འཛིན།

ROYAL GOVERNMENT OF BHUTAN
MINISTRY OF HEALTH
BHUTAN FOOD AND DRUG AUTHORITY



INSPECTION SERVICES

CHECKLIST FOR SEED CERTIFICATION

Name and signature of the Team Leader
Date

Name and Signature of the Nursery Operator
Date:

NB: Checklist shall be used for specific commodity inspection purpose

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