



Norway's International  
Climate and Forest Initiative  
(NICFI)

# Seed source description/ registration forms with explanation

January 2021

TECHNICAL



## **Seed source description/registration forms with explanation**

### **Provision of Adequate Tree Seed Portfolio (PATSP0)**

January 2021

## Seed source description/registration forms with explanation

Seed source description, no. # \_\_\_\_\_

Ethiopian Date: \_\_\_\_\_

Gregorian calendar Date: \_\_\_\_\_

Description conducted by: \_\_\_\_\_

Species:	
Species local name:	
Forest name:	
Name of contact:	

GPS reading UTM:				Elevation:		MAMSL
Seed source no:				Region:		
Zone:				District/Woreda:		
Kebele:				Village:		
Seed source type:	(i) Farmland				(iv) Natural vegetation	
	(ii) Plantation				(v) Vegetative propagation	
	(iii) Planted Seed Orchard					
Area (ha), number of trees / number of plots:						
Date of establishment:				Fencing:		

User rights for the land:	Public		Private		Community		Individual	
Established by:								
Maintained and protected by:								
Time for seed collection:								
Collected seed annually (kg):								
Whom collects the seed:								

Seeds supplied to:	Seed centres		Nurseries	
	Farmers		Private seed distributors	
	NGO's		Other's	

Problems in protection or maintenance:	
Problems in collection and distribution:	

Health:	Vigorous		Declining		Pest, insects and/or fungi	
	Human interference, livestock traffic, browsing					

Measurement:	Diameter breast height (DBH) in mm (millimeter)	1)	2)	3)	4)	5)		
		6)	7)	8)	9)	10)		
	Height in dm (decimeter)	1)	2)	3)	4)	5)		
		6)	7)	8)	9)	10)		
	No. of trees/ha							
Classification:	Tested		Qualified		Selected		Identified	

GPS reading main trees:	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)
Photo main trees:	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)

Nearby tree no.:	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
DBH:																
Nearby tree no.:	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
DBH:																
Nearby tree no.:	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Height:																
Nearby tree no.:	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Height:																

Main tree no.:																
Total no. of nearby trees:																

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Comments:	

## **Explanations for filling in the seed source registration form.**

**Seed source description, no. #** \_\_\_\_\_

- Use a unique no. if possible, the no. only refers to the description.

**Ethiopian Date:** \_\_\_\_\_ **Gregorian calendar Date:** \_\_\_\_\_

- Either EC (Ethiopian calendar), GC (Gregorian calendar) or both

**Description conducted by:** \_\_\_\_\_

- All participants of the seed source description

**Species:**

- Name of species

**Species local name:**

- Local name of the species – ask local people

**Forest name:**

- Name of forest or area if farmland

**Name of contact:**

- Contact person related to the seed source

**GPS reading:**

- Coordinates at the entrance to the area; form: UTM zone, Eastern, Northern; not a waypoint !

**Elevation:**

- MAMSL=Meters Above Mean Sea Level; read from the GPS equipment

**Seed source no:**

- If the seed source have been given/assigned a specific no. ; the no. should be unique at least at regional level, preferably at national level

**Region:**

- The region in which the seed source is located

**Zone:**

- The zone in which the seed source is located

**District/Woreda:**

- The Woreda/district in which the seed source is located

**Kebele:**

- The name of the Kebele/Wards in which the seed source is located

**Village:**

- The name of the village in which the seed source is located

**Seed source type:**

- Description of seed source described by 5 categories – see below; checkmark the category
- Seed source types:

**(i) Farmland**

- Tree species on farms – planted or remnants of natural vegetation.
- Preferably consist of minimum 50 trees with a distance of 100 meters in between.
- Collect from minimum 30 trees in equal quantities.

**(ii) Plantation**

- Trees planted in plantation or woodlot.
- Unknown origin: Consist of minimum 75 trees preferably more. Seeds collected from minimum 40 trees.
- Known origin/provenance: Consist of minimum 50 trees in plantation. Collect from at least 30 trees.
- Seed source must be documented.

**(iii) Planted seed orchards**

- Trees planted in plantation or woodlot, specifically for seed production.
- BSO's, CSO's and SSO's. Well managed homogenous sites with expected gain through thinning and selection.

**(iv) Natural vegetation**

- Naturally occurring populations of trees in forest and woodland, etc., that are utilized for seed production.
- Preferably consist of minimum 50 trees with a distance of 100 meters in between.
- Seed lot should be collected from minimum 40 trees in equal quantities.

**(v) Vegetative propagation**

- Graftings, stem cuttings, micro cuttings or somatic embryos propagated from selected clones or seedlings. Awareness of diversity.
- Source must be documented.



**Area (ha), number of trees / number of plots:**

- The total area in ha of seed source;
- or total number of trees;
- or number of trees per plot and number of plots

**Date of establishment:**

- Year will be sufficient – write whether it is Ethiopian or Gregorian calendar

**Fencing:**

- Fencing and status of fencing; natural, wire, palisade etc.; good, broken, need replacement etc.

**User rights for the land:**

- Checkmark type of user rights

**Public**

- Typically forest, either public or privat

**Private**

- Not public but can be either community or individual; typically farmland

**Community**

- Collective rights/cooperative

**Individual**

- Individual rights, single person/family

**Established by:**

- Whom established the seed source if known, e.g. local farmers, enterprise, church etc.

**Maintained and protected by:**

- Individual, Co-operative or Forest management organization

**Time for seed collection:**

- Months of the year

**Collected seed annually (kg):**

- Average amount of seed collected in kg per year

**Whom collects the seed:**

- Name of whom collecting the seed, e.g. local farmers, private enterprise, cooperative etc.

**Seeds supplied to:**

- Checkmark whom the seeds are supplied to

**Seed centres**

- Hereby meant one of the RTSC or FRC/TSTCU in Addis

**Farmers**

- Local farmers in the local area (Village/Site), the Kebele, inside the Woreda or similar non-labelled distribution

**NGO's**

- Non-governmental Organizations

**Nurseries**

- Distinguish between stationary and ad hoc nurseries; ad hoc should be regarded as other's

**Private seed distributors**

- Private enterprise/business

**Other's**

- e.g. ad hoc nurseries established for one or few planting sessions only

**Problems in protection or maintenance:**

- If yes, mention the cause

**Problems in collection and distribution:**

- E.g. difficulty in access to the seed

**Health:**

- General health description of the seed source. Checkmark whether vigorous or declining or even both.

**Vigorous**

- Looks healthy and in good growth

**Declining**

- Die-back, dead branches, ageing (overmatured) etc.

**Pest, insects and/or fungi**

- E.g. resin flows, beetle attacks, predators on leaves etc.

**Human interference, livestock traffic, browsing**

- Human settlements, extraction of firewood, timber and grazing of livestock, etc.

**Measurement:**

- Depend on seed source type:
  - **Farmland** requires individual (main) trees measured – find mean (average size) trees with a distance in between of minimum 100 meter and measure 10 trees.
  - **Natural vegetation** requires the same procedure (minimum distance of 100 meter and 10 trees measured).
  - **Plantation, planted seed orchard** and **vegetative propagation** will be 10 mean trees spread out in seed source.

**Diameter breast height (DBH) in mm (millimeter)**

- Measure diameter at DBH = 130 cm above ground level. Alternative circumference divided with Pi (3,14159).

**Height in dm (decimeter)**

- Measure height of tree – beware of correlation with DBH (same tree no.).

**No. of trees/ha**

- Calculate trees/ha based on a sample plot, circular or rectangular. Make minimum 3 samples and use the average values. Factorize up to a whole hectare.

**Classification:**

- Four categories under which reproductive material can be certified (OECD terms):
- Tested – based on genetic evaluation
- Qualified – selection at individual level
- Selected – phenotypically selected at population level
- Identified – location and altitude of collection is known.

**GPS reading main trees:**

- GPS reading (waypoints) of individual measured trees in farmland and natural vegetation.

**Photo main trees:**

- Photo of individual measured trees in farmland and natural vegetation, preferably two of each. Try to get stem and canopy in one picture and width of canopy in the other.

**Nearby tree no.:****DBH:**

- Nearby-trees of same species in a radius of 20 meter to main trees measured. Remember correlation between DBH and heights. Form: main tree no. / nearby tree no.
- Maximum of 3 nearby trees are measured.

**Nearby tree no.:****Height:**

- Similar to nearby-trees DBH – remember correlation.
- Maximum of 3 nearby trees are measured.

**Total no. of nearby trees:**

- Count total of nearby trees of same species within the radius of 20 meter (to the main tree).  
Form: main tree no. / total no. of same species (incl. measured ones)

**Comments:**

- Any observation of abnormality, heavily pruning, neighboring tree species or names of dominant species other than seed species, slopes, orientation (north, south, east, west), creek, river etc..



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