

Parameters for Citrus

S. No	Parameters	Standard		
		Wedge Grafting (Mandarin and Sweet Orange)	T – Budding (Mandarin, Sweet Orange, Lime and Lemon)	Cutting (Lime and Lemon)
1	Method of propagation	Wedge grafting	T – budding	Cutting
2	Type of rootstock	Vigorous	Vigorous	–
3	Raising rootstock	In polyethylene bag	In polyethylene bag	–
4	Size of polyethylene bag	18 X 20 cm	20 X 18 cm	–
5	Age of rootstock	9 to 10 months	9 to 10 months	–
6	Diameter of rootstock/scion	0.7 to 0.9 cm	0.7 to 0.9 cm	–
7	Age of scion shoots	4 to 5 months	5 to 6 months	–
8	Length of scion/bud wood	12 to 15 cm	2.0 to 2.5 cm	–
9	Length of vertical cut on rootstock	3.5 to 4.0 cm	–	–
10	Length of slanting cut on both the sides at lower end of scion	3.5 to 4.0 cm	–	–
11	Length of cut on the rootstock for inserting bud on T – point	–	2.0 to 2.5 cm	–
12	No of buds/scion	3 to 5	–	–
13	Grafting/budding height	15 to 20 cm above the soil surface or poly bag	15 to 20 cm above the soil surface or poly bag	–
14	Age of Plant	–	–	Not less than 6 months
15	Stem diameter	–	–	Not less than 0.5 cm
16	Plant Height	–	–	Not less than 40 cm, straight and single stem
17	No of roots	–	–	Not less than 10 fibrous roots
18	Foliage	–	–	Healthy and green straight with single stem without side shoots
19	Disease and pest incidence	–	–	Free from any disease and pests.

Parameters for Apple

<i>S. No</i>	<i>Parameters</i>	<i>Standard</i>		
		<i>Wedge Grafting</i>	<i>Tongue Grafting</i>	<i>T – Budding</i>
1	Method of propagation	Wedge grafting	Tongue grafting	T – budding
2	Type of rootstock	Vigorous	Vigorous	Vigorous
3	Raising rootstock	In polyethylene bag	In polyethylene bag	In polyethylene bag
4	Size of polyethylene bag	20X 18 cm	20X 18 cm	20X 18 cm
5	Age of rootstock	12 to 15 months	12 to 15 months	10 to 12 months old
6	Diameter of rootstock/scion	0.7 to 1.5 cm	1.0 to 1.5 cm	0.8 to 1.25 cm
7	Age of scion shoots	–	–	7 to 8 months
8	Age of Scion wood	8 to 10 months	7 to 8 months	–
9	Length of scion/bud wood	10 to 15 cm	10 to 15 cm	1.25 to 1.5 cm
10	Length of vertical cut on rootstock	1.0 to 1.5 cm	–	–
11	Length of one side slant cut at lower end of scion	–	1.25 to 1.5 cm	–
12	Length of one side slant cut on top of the rootstock	–	1.25 to 1.5 cm	–
13	Length of slanting cut on both the sides at lower end of scion	1.0 to 1.5 cm	–	–
14	Length of cut on the rootstock for inserting bud on T – point	–	–	1.25 to 1.5 cm
15	No of buds/scion	3 to 4	2 to 4	–
16	Grafting/budding height	15 to 20 cm above the soil surface or poly bag	Colonel rootstock–25 to 30 cm, Seedling rootstock – 4 to 6 cm	15 to 20 cm above soil surface or poly bag

Parameters for Walnut

<i>S. No</i>	<i>Parameters</i>	<i>Standards</i>	
		<i>Wedge Grafting</i>	<i>Patch Budding</i>
1	Method of propagation	Wedge grafting	Patch / Modified Ring budding
2	Type of rootstock	Vigorous	Seedling rootstock having straight growth without side shoots.
3	Raising rootstock	In polyethylene bag	In polyethylene bag
4	Size of polyethylene bag	18 X 20 cm	20 X 18 cm
5	Bud Size	–	1.0 X 3.0 cm
6	Age of rootstock	8 to 10 cm	12 to 15 months
7	Diameter of rootstock/scion	0.6 to 0.8 cm	0.8 to 1.25 cm
8	Age of scion shoots	8 to 10 months	2 to 3 months
9	Length of scion	12 to 15 cm	–
10	Length of vertical cut on rootstock	4.0 to 4.5 cm	–
11	Length of slanting cut on both the sides at lower end of scion	4.0 to 4.5 cm	–
12	No of buds/scion	3.0 to 4.0	–
13	Grafting height	15 to 20 cm above the soil surface or poly bag	20 to 25 cm above soil surface or poly bag

Parameters for Pomegranate

<i>S. No</i>	<i>Parameters</i>	<i>Standards</i>	
		<i>Wedge Grafting</i>	<i>Air Layering</i>
1	Method of propagation	Wedge grafting	Air layering
2	Type of rootstock	Vigorous	–
3	Raising rootstock	In polyethylene bag	–
4	Size of polyethylene bag	18 X 20 cm	–
5	Age of rootstock	8 to 10 months	–
6	Diameter of rootstock/scion	0.6 to 0.8 cm	–
7	Age of scion shoots	6 to 8 months	No less then six months
8	Girth of the shoot	–	Not less then 2.5 cm
9	Length of scion/bud wood	12 to 15 cm	–
10	Length of vertical cut on rootstock	4.0 to 4.5 cm	–
11	Length of slanting cut on both the sides at lower end of scion	4.0 to 4.5 cm	–
12	No of buds/scion	3.0 to 4.0	–
13	Grafting height	15 to 20 cm above the soil surface or poly bag	–

Parameters for Pear

<i>S. No</i>	<i>Parameters</i>	<i>Standard</i>		
		<i>Wedge Grafting</i>	<i>Tongue Grafting</i>	<i>T – Budding</i>
1	Method of propagation	Wedge grafting	Tongue grafting	T – Budding
2	Type of rootstock	Vigorous	Vigorous	Vigorous
3	Raising rootstock	In polyethylene bag	In polyethylene bag	In polyethylene bag
4	Size of polyethylene bag	18 X 20 cm	20 X18 cm	20 X18 cm
5	Age of rootstock	12 to 15 months	12 to 15 months	12 to 15 months
6	Diameter of rootstock/scion	0.7 to 1.5 cm	1.0 X 1.5 cm	1.0 to 1.5 cm
7	Age of scion shoots	8 to 10 months	–	6 to 8 months
8	Age of Scion wood	–	6 to 8 months	–
9	Length of scion/bud wood	12 to 15 cm	10 to 15 cm	2.5 to 2.5 cm
10	Length of vertical cut on rootstock	2.5 to 3.0 cm	–	–
11	Length of one side slant cut at lower end of scion	–	2.5 to 3.0 cm	–
12	Length of one side slant cut on top of the rootstock	–	2.5 to 3.0 cm	–
13	Length of cut on the rootstock for inserting bud on T – point	–	–	2.5 to 3.0 cm
14	Length of slanting cut on both the sides at lower end of scion	2.5 to 3.0 cm	–	–
15	No of buds/scion wood	3.0 to 4.0	2 to 4 (dormant bud)	–
16	Grafting/budding height	15 to 20 cm above the soil surface or poly bag	20 to 25 cm above the soil surface or poly bag	15 to 20 cm above the soil surface or poly bag

Parameters for Peach

<i>S. No</i>	<i>Parameters</i>	<i>Standard</i>		
		<i>Wedge Grafting</i>	<i>T – Budding</i>	<i>Tongue Grafting</i>
1	Method of propagation	Wedge grafting	T – Budding	Tongue grafting
2	Type of rootstock	Vigorous	Vigorous	Vigorous
3	Raising rootstock	In polyethylene bag	In polyethylene bag	In polyethylene bag
4	Size of polyethylene bag	18 X 20 cm	20 X 18 cm	20 X 18 cm
5	Age of rootstock	12 to 15 months	9 to 10 months	12 to 15 months
6	Diameter of rootstock/scion	1.0 to 1.5 cm	0.7 to 0.9 cm	1.0 to 1.5 cm
7	Age of scion shoots	8 to 10 months	5 to 6 months	–
8	Age of scion wood	–	–	6 to 8 months
9	Length of scion/bud wood	12 to 15 cm	2.0 to 2.5 cm	10 to 15 cm
10	Length of vertical cut on rootstock	1.0 to 1.5 cm	–	–
11	Length of slanting cut on both the sides at lower end of scion	1.0 to 1.5 cm	–	–
12	Length of one side slant cut at lower end of scion	–	–	2.5 to 3.0 cm
13	Length of one side slant cut on top of the rootstock	–	–	2.5 to 3.0 cm
14	Length of cut on the rootstock for inserting bud on T – point	–	2.0 to 2.0 cm	–
15	No of buds/scion wood	3 to 4	–	2 to 4 (dormant bud)
16	Grafting/Budding height	15 to 20 cm above the soil surface or poly bag	15 to 20 cm above soil surface or poly bag	20 to 25 cm above soil surface or poly bag

Parameters for Mango

<i>S. No</i>	<i>Parameters</i>	<i>Standard</i>		
		<i>Wedge Grafting</i>	<i>Soft Wood Grafting</i>	<i>Veneer Grafting</i>
1	Method of propagation	Wedge grafting	Soft wood grafting	<i>Veneer Grafting</i>
2	Type of rootstock	Vigorous	Vigorous	Vigorous
3	Raising rootstock	In polyethylene bag	In polyethylene bag	In polyethylene bag
4	Size of polyethylene bag	18 X 20 cm	18 X 20 cm	18 X 20 cm
5	Age of rootstock	9 to 10 months	9 to 10 months	9 to 10 months
6	Diameter of rootstock/scion	0.8 to 1.5 cm	0.8 to 1.5 cm	0.8 to 1.5 cm
7	Age of scion shoots	4 to 5 months	4 to 5 months	4 to 5 months
8	Length of scion	15 to 18 cm	15 to 18 cm	15 to 18 cm
9	Length of vertical/one side cut on rootstock	4.0 to 4.5 cm	3.5 to 4.0 cm	4.0 to 4.5 cm
10	Length of slanting cut on both the sides/one side slant cut at lower end of scion	4.0 to 4.5 cm	3.5 to 4.0 cm	4.0 to 4.5 cm
11	No of buds/scion	3 to 4	3 to 4	3 to 4
12	Grafting height	15 to 20 cm above the soil surface or poly bag	20 to 25 cm above the soil surface or poly bag	15 to 20 cm above the soil surface or poly bag

Guidelines for Labeling of Planting Material

- ❖ Each lot of planting material should be labeled. No sale of planting material should be permitted without proper labeling.
- ❖ All information as per contents of the label for the fruit crop should be mentioned legibly and without any mistake.
- ❖ Self locking labels, which do not get unfastened easily while handling and transport, should preferably be used.
- ❖ Labels should be written in Hindi and English.
- ❖ All the labels for sale of planting material must be signed by the official authorized for the purpose.
- ❖ As regards size of label, the label for planting material should be of 12cm X 6cm size.

Labels to be used for Vegetatively Propagated Plants

Correct labeling is an important element of responsible and successful nurserymen in distribution of the planting material. The information to be provided on labels varies according to crop and should be correct. In general, these should contain the following details:-

Name of the Institute/Nursery/Location

Batch No.....Tag No.....

Crop & Variety.....

Date and age of grafted sapling.....

Method of propagation.....

Source of scion or bud wood.....

Treatment if any and Date of treatment.....

Freedom from diseases and pests.....

Parameters for Guava

<i>S. No</i>	<i>Parameters</i>	<i>Standard</i>
1	Method of propagation	Wedge grafting
2	Type of rootstock	Vigorous
3	Raising rootstock	In polyethylene bag
4	Size of polyethylene bag	18 X 20 cm
5	Age of rootstock	8 to 9 months
6	Diameter of rootstock/scion	0.75 to 1.0 cm
7	Age of scion shoots	3 to 4 months
8	Length of scion	12 to 15 cm
9	Length of vertical cut on rootstock	4.0 to 4.5 cm
10	length of slanting cut on both the sides at lower end of scion	4.0 to 4.5 cm
11	No. of buds/scion	3.0 to 4.0
12	Grafting height	15 to 20 cm above the soil surface or poly bag

Parameters for Anola

<i>S. No</i>	<i>Parameters</i>	<i>Standard</i>	
		<i>Wedge Grafting</i>	<i>Patch Budding</i>
1	Method of Grafting/propagation	Wedge grafting	Patch/Modified Ring budding
2	Raising rootstock	In polyethylene bag	In polyethylene bag
3	Size of polyethylene bag	20 X 18 cm	20 X 18 cm
4	Type of rootstock	Straight and active growth stage	Seedling rootstock having straight growth without side shoots
5	Age of rootstock	7 to 9 months	7 to 9 months
6	Diameter of rootstock/scion	0.5 to 0.8 cm	0.8 to 1.0 cm
7	Age of scion	3 to 4 months	2 to 3 months
8	Length of scion	15 to 18 cm	–
9	No of buds on the scion stick	6 to 8	–
10	Length of vertical cut on rootstock	4.0 to 4.5 cm	–
11	Length of slanting cut on both the sides at lower end of scion	4.0 to 4.5 cm	–
12	Grafting height	15 to 20 cm above soil surface or poly bag	–
13	Bud size	–	1.5 X 2.5 cm
14	Budding height	–	15 to 20 cm above soil surface or poly bag