

Apple

GENERAL CHARACTERISTICS

Apple shall be mature, firm, clean, fresh and well formed and shall have color and shape characteristics of variety. Apple shall have smooth and shiny surface. Apple shall be free from hail marks/spots, russet, scald or any type of fungus or diseases.

Grades

There shall be Six Grades for Himachal Applei.e. Ex Large, Large, Medium, Small, Ex. Small and Pitthoo.In case of J&K Apple, two grades shall be there viz; 4 & 5 layer. The size requirement for these grades shall be as follows:

Size

Variant- Himachal Apple	Ex Large	Large	Medium	Small	Ex Small	Pitthoo	
Count	80	100	125	150	175	200	
Dia	>85 mm	75-80 mm	70-75 mm	65-70 mm	60-65 mm	50-60 mm	

Variant-J & K Apple	4 Layer	5 Layer
Count	58-62	105-110
Dia	70-80 mm	55-70 mm

Defects	Grade I	Grade II	Grade III
Cuts	Not Allowed	Not Allowed	<1%
Misshape	Not Allowed	<1%	<3%
Punctured Skin	Not Allowed	Not Allowed	<1%
Mechanical Damage	Not Allowed	Not Allowed	<3%
Hailed	Not Allowed	<1%	<3%
Bruising	Not Allowed	<2%	<4%
Rusting	Not Allowed	<3%	<5%
Sun Burn	Not Allowed	<1%	<5%
Shriveled	Not Allowed	<1%	<5%
Fruit Pressure	Above 17lbs	15-16 lbs	12-15 lbs
Rottening	Not Allowed	Not Allowed	Not Allowed
Scald	Not Allowed	<3%	<5%
Ruptured Skin	Not Allowed	Not Allowed	<1%
Immature	Not Allowed	Not Allowed	Allowed
Fungal Infection	Not Allowed	Not Allowed	Not Allowed
Insect Infestation	Not Allowed	Not Allowed	Not Allowed





FLY SPECS RUSSETING HAILING



IMMATURE INSECT DAMAGE MECHANICAL INJURY



MISSHAPE PRESSURE DAMAGE PUNCTURED SKIN





Defects Tolerance	Grade I	Grade II	Grade III
Minor Defects	4-5 %	5-10 %	10-15 %
Major Defects	2%	5 %	7 %
Serious Defects	1%	1%	2%
Size Tolerance	3 %	5 %	10 %

S. No.	Quality Specification	Mature, firm and clean having smooth and shiny surface free from hailing and russetwith proper fruit pressure
1.	 Acceptable size (Measured from at least one side by way of passing through sieve) Reject 	 55 mm-75 mm If below 55 mm and above 75 mm exceeding 5%
2.	Cut marksAcceptableRejected	Up to 1%Above 1%
3.	 Acceptable Rejected	Between 2-3%Above 3%
4.	Fruit PressureAcceptableRejected	> 15 lbs< 15 lbs
5.	Colour %AcceptableRejected	> 85 % blush< 85 %



6.	Hail Marks(Deep hail marks can deteriorate the cosmetic value as well as shelf life of fruit) • Acceptable • Rejected	< 3%>3 %
7.	Pressure Damage (Due to packing material or transit which can decrease the shelf life of fruit) • Acceptable • Rejected	Light pressure marksHeavy pressure marks
8.	Russet • Acceptable • Rejected	Less than 5 %>5 %
9.	Shriveled (Occurs mostly when the fruit is stored at improper temperature& RH) • Acceptable • Rejected	Less than 1 %More than 1 %
10.	Sun Burn/Scald • Acceptable • Rejected	Less than 1 %> 1%



Banana

GENERAL CHARACTERISTICS

Banana shall be clean, firm, and mature and shall have shape and size true to its variety. Banana fingers should be properly intact with green and turgid stalk to its crown.

Grades

There shall be two grades for Banana Dwarf Cavendish and Banana Robusta varietiesi.e.Premium and Regular depending upon the season.The size requirement for these grades shall be as follows:

Size

Variant	Se	eason	Off-Season		
Vallalit	Length (mm) Diameter (mm)		Length (mm)	Diameter (mm)	
Banana Dwarf Cavendish	>130		100-130	30-35	
Banana Robusta	> 220		150-220	30-35	

Criteria for measurement

Length: The length of the fingers is determined along the outside curve from the blossom end to the base of the pedicel where the edible pulp ends.

Diameter: It is defined as the thickness or girth of a transverse section between the lateral faces.

The reference fruit for measurement of the length and grade is:

- For hands, the medium finger on the outer row of the hand.
- For clusters/bunch (parts of hands), the finger next to the cut section of the hand, on the outer row of the cluster.



Defects	Premium	Regular
Cuts	Not Allowed	Not Allowed
Natural Cracks	Not Allowed	Allowed
Ruptured Skin	Not Allowed	Allowed
Mechanical Damage	Not Allowed	Allowed
Foul Smell	Not Allowed	Not Allowed
Bruising	Not Allowed	Allowed
Chilling Injury	Not Allowed	Not Allowed
Sun Burn	Not Allowed	Allowed
Abnormal Curvature	Not Allowed	Allowed
Rottening	Not Allowed	Not Allowed
Doubles	Not Allowed	Allowed
Ruptured Skin	Not Allowed	Allowed
Immature	Not Allowed	Allowed
Fungal Infection	Not Allowed	Not Allowed
Insect Infestation	Not Allowed	Not Allowed

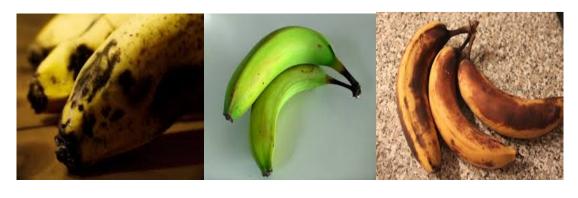




IMMATURE INFECTED

DOUBLES

BLACK CHITTI/FUNGAL



BRUISING

NECK BROWNING

OVERRIPE

Photo of banana having black stalk finger attached to the crown



Defects Tolerance	Premium	Regular
Minor Defects	2 %	5 %
Major Defects	1 %	5 %
Serious Defects	1%	1%
Size Tolerance	2 %	5 %

S. No.	Quality Specification	Clean, firm and mature, firm having intact fingers
		free from diseases upto following standards
1.	Acceptable sizeReject	 Length ranging from 180 mm-220 mm Diameter upto 30-35 mm (Season) Off season from Mid- December to Mid- February Length less than 180 mm or exceeds 220 mm Diameter less than 30 mm or exceeds 35 mm
2.	Cut marksAcceptableRejected	Up to 1% maximumAbove 1%
3.	 Acceptable Rejected	Between 2-3%Above 3%
4.	Fruit PressureAcceptableRejected	Should be firmLoose
5.	Colour %AcceptableRejected	Slight golden to yellowGreenish colour
6.	Natural crack • Acceptable	• Upto 1 %



	Rejected	• > 1 %
7.	Sun BurnAcceptableRejected	Upto 2%> 2 %
8.	 Acceptable Rejected	Upto 1 %> 1 %
9.	 Acceptable Rejected	Upto 2%> 2 %
10.	Fungal InfectionAcceptableRejected	Upto 1 %> 1 %
11.	Insect InfestationAcceptableRejected	Upto 1 %> 1 %



Kinnow

GENERAL CHARACTERISTICS

Kinnow shall be mature, firm, juicy, well formed and have similar varietal characteristics.

Grades

There shall be two Grades for Kinnowi.e. Premium and Regular. The size requirement for these Grades, as per count, shall be as follows:

Size

Parameter	Count (pcs per box)							
	30	36	42	48	54	60	72	80
Diameter (mm)	> 90	85-90	80-85	75-80	70-75	65-70	60-65	< 55

Defects	Premium	Regular
Cuts	Not Allowed	Not Allowed
Black/ Brown Spots	Not Allowed	Allowed
Bruising	Not Allowed	Allowed
Mechanical Damage	Not Allowed	Not Allowed
Fruit Pressure	Not Allowed	Not Allowed
Misshape	Not Allowed	Allowed
Shriveled	Not Allowed	Not Allowed
Punctured Skin	Not Allowed	Allowed
Natural Cracks	Not Allowed	Not Allowed
Immature	Not Allowed	Allowed
Sun Burn	Not Allowed	Allowed
Fungal Infection	Not Allowed	Not Allowed
Insect Infestation	Not Allowed	Not Allowed





IMMATURE SCAB RUSSET





Defects Tolerance	Premium	Regular
Minor Defects	3 %	5 %
Major Defects	1 %	5 %
Serious Defects	1%	1%
Size Tolerance	3 %	5 %

S. No.	Quality Specification	Clean, firm and mature, firm having intact fingers free from diseases upto following standards
1.	Acceptable sizeReject	 Diameter ranging between 65-80 mm Less than 65 mm and more than 80 mm
2.	Cut marks	
	AcceptableRejected	Up to 1% maximumAbove 1%
3.	Immature	
	AcceptableRejected	Up to 3%Above 3%
4.	Fruit Pressure	
	AcceptableRejected	Should be firmLoose
5.	Colour %	
	AcceptableRejected	Slight yellow to orangeGreenish colour
6.	Natural crack	
	AcceptableRejected	<1 %> 1 %



7.	Sun Burn	
	AcceptableRejected	Upto 2%> 2 %
8.	RottenAcceptableRejected	Upto 1 %> 1 %
9.	Misshape	Upto 2%> 2 %
10.	Fungal Infection Acceptable Rejected	Upto 1 %> 1 %
11.	Insect Infestation Acceptable Rejected	Upto 1 %> 1 %



Orange

GENERAL CHARACTERISTICS

Orange shall be mature, firm, juicy, well formed and shall have similar Varietal characteristics.

Grades

There shall be two Grades for Orangei.e. Premium and Regular.

Size

The size requirement for these Grades as per count shall be as follows:

	Count (pcs per box)				
Parameter	96	141	171	191	210
	Extra Large	Large	Medium	Small	Extra Small
Diameter (mm)	75-80	65-75	55-65	50-55	40-50

Defects	Premium	Regular	
Cuts	Not Allowed	Not Allowed	
Black/ Brown Spots	Not Allowed	Allowed	
Bruising	Not Allowed	Allowed	
Mechanical Damage	Not Allowed	Not Allowed	
Tight & Smooth Skin	Not Allowed	Not Allowed	
Misshape	Not Allowed	Allowed	
Shriveled	Not Allowed	Not Allowed	
Punctured Skin	Not Allowed	Allowed	
Natural Cracks	Not Allowed	Not Allowed	
Immature	Not Allowed	Allowed	
Sun Burn	Not Allowed	Allowed	
Fungal Infection	Not Allowed	Not Allowed	
Insect Infestation	Not Allowed	Not Allowed	
Uneven Surface	Not Allowed	Allowed	
Blisters	Not Allowed	Allowed	
Nodes on Surface	Not Allowed	Allowed	



TO be incorporated



Defects Tolerance	Premium	Regular
Minor Defects	3 %	5 %
Major Defects	1 %	5 %
Serious Defects	1%	1%
Size Tolerance	3 %	5 %

S. No.	Quality Specification	Clean, firm and mature, firm having intact fingers free from diseases upto following standards
1.	Acceptable sizeReject	 Diameter ranging between 65-75 mm Less than 65 mm and more than 75 mm
2.	Cut marksAcceptableRejected	Up to 1% maximumAbove 1%
3.	 Acceptable Rejected	Between 2-3%Above 3%
4.	Fruit PressureAcceptableRejected	Should be firmLoose
5.	Colour %AcceptableRejected	Slight yellow to orangeGreenish colour
6.	Natural crack	Upto 1 %> 1 %
7.	Sun Burn	



	AcceptableRejected	Upto 2%> 2 %
8.	RotteningAcceptableRejected	Upto 1 %> 1 %
9.	MisshapeAcceptableRejected	Upto 2%> 2 %
10.	Fungal InfectionAcceptableRejected	Upto 1 %> 1 %
11.	 Acceptable Rejected	Upto 1 %> 1 %