



PANAMA NATURE FRESH

QUALITY STANDARDS

SPECIFICATIONS FOR MANGO (PNFPL0006)

Aam (Hindi), Mavu (Kannada), Mangai (Tamil), Mamidi (Telugu)

1. MANGO VARIANTS

Mango Alphanso	Mango Neelum	Mango Banganpalli
Mango Sindhuri	Mango Rumani	Mango Raspuri
Mango Chousa	Mango Totapuri	Mango Mallika
Mango Malgoa	Mango Dashehari	Mango Pairi
Mango Langra	Mango Shakargutli	

2. GENERAL CHARACTERISTICS

A. FOR UNRIPE FRUITS

Mango shall be fully developed, mature, hard, clean and shall have olive green color with whitish waxy layer (bloom) and should sink in 3% salt solution. Matured Mangoes shall have swollen shoulder; whose blades shall be either in line with stem end or overgrown. Mangoes shall be free from black/ brown spots, bruises, cuts, watery patches, internal spongy tissue and any type of damage caused by hail, packing, pressure and mechanical means. Mangoes shall be sound and free from rotting (stem end rot or lateral rot, or any other rot), fungal infection, insect and disease infestation.

B. FOR RIPE FRUITS

Mango shall be fully developed, clean, firm, and ripe and shall have shape and color characteristics of variety. Mangoes shall be free from black/brown spots, bruised marks, cuts, watery patches, internal spongy tissue, and any type of damage caused by hail, packing, pressure and mechanical means. Mangoes shall not be soft, overripe, misshape and shriveled. Mangoes shall be free from rotting (lateral rot or stem end rot or any other rot), fungal infection, insect and disease infestation. Mangoes shall be free from abnormal external moisture, foreign smell and/or taste.

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3. SAMPLING PLAN

Sampling plan-C will be followed for sampling and quality inspection of Mangoes.

4. GRADES

There shall be three Grades for Mangoes viz., Grade-A, Grade-B and Grade-C. The size requirement for these grades shall be as follows:

5. SIZE

VARIANTS	GRADE-A (gms)	GRADE-B (gms)	GRADE-C
Mango Banganpalli	>300	200-300	Any size
Mango Alphanso	>200	130-200	
Mango Chousa	> 300	180-300	
Mango Dashehari	>180	120-180	
Mango Langra	>220	150-220	
Mango Malgoa	>250	180-250	
Mango Mallika	>300	200-300	
Mango Neelum	>220	150-220	
Mango Pairi	>220	150-220	
Mango Raspuri	>250	180-250	
Mango Sindhuri	>200	150-200	
Mango Totapuri	>350	250-350	
Mango Rumani	>200	120-200	
Mango Shakargutli	>80	<80	

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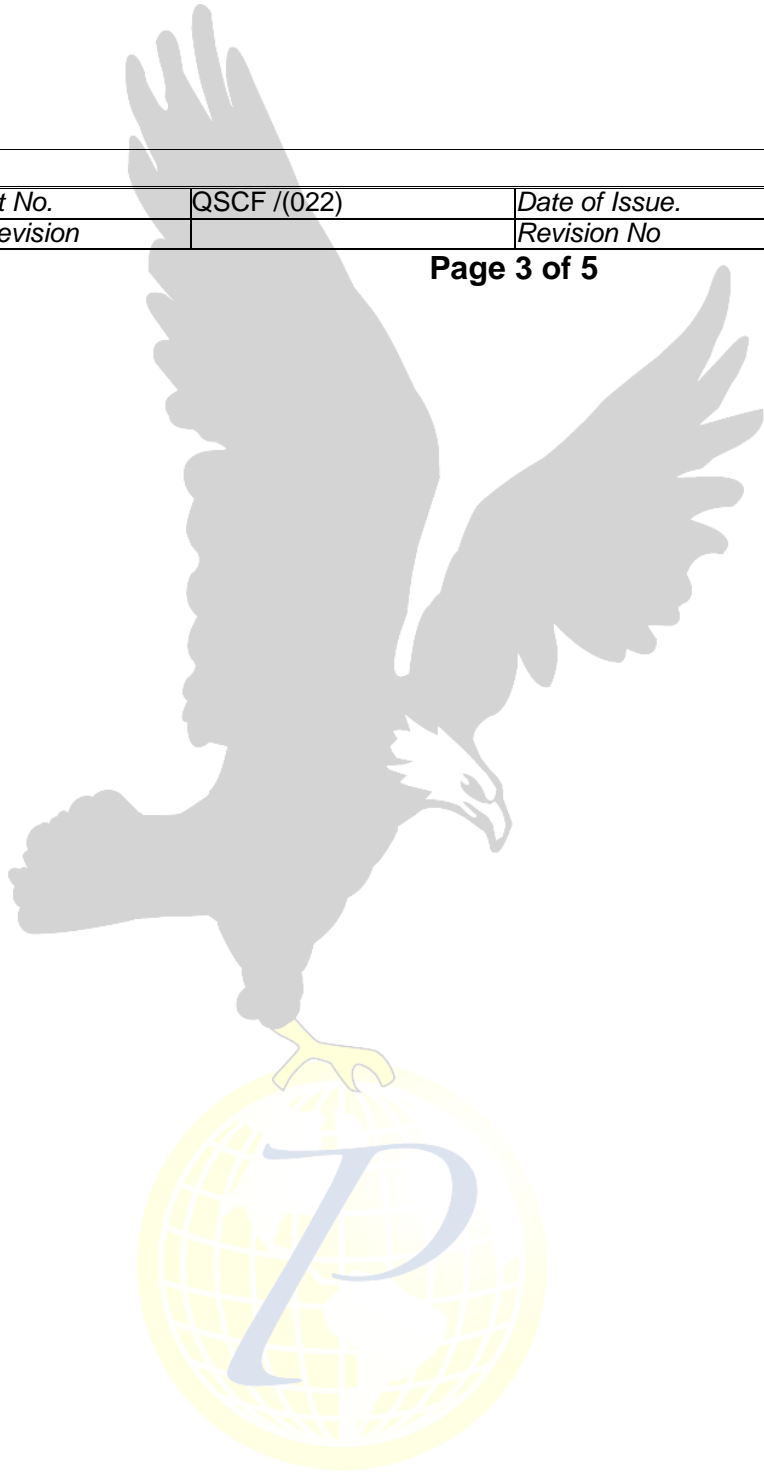
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6. QUALITY PARAMETERS

DEFECTS	GRADE-A	GRADE-B	GRADE-C
BRUISED MARKS	Allowed upto 5% surface area	Allowed upto 10% surface area	Allowed
LATEX SPOTS	Allowed upto 5% surface area	Allowed up to 10% surface area	Not allowed
PACKING DAMAGE	Allowed upto 10% surface area	Allowed upto 25% surface area	Allowed
SHRIVELED	Not allowed	Allowed (slight shriveled)	Allowed
DISCOLORATION	Allowed upto 10% surface area	Allowed	Allowed
WATERY PATCHES	Allowed upto 5% surface area	Allowed upto 20% surface area	Allowed
MISSHAPE	Not allowed	Allowed (slight misshape)	Allowed (Badly misshape)
SOFT/PRESSURE DAMAGE	Not allowed	Not allowed	Not allowed
CUT	Not allowed	Not allowed	Not allowed
MECHANICAL DAMAGE	Not allowed	Not allowed	Not allowed
POOR LOOK	Not allowed	Allowed 20% in a lot	Allowed
SPONGY TISSUE (In case of mango Alphanso)	Not allowed	Not allowed	Not allowed
HEALED BLACK/BROWN MARKS	Not allowed	Allowed upto 20% surface area.	Allowed
STEM END ROT	Not allowed	Not allowed	Not allowed
INSECT DAMAGE	Not allowed	Not allowed	Not allowed
DISEASED	Not allowed	Not allowed	Not allowed
ROTTING/FUNGAL INFECTED	Not allowed	Not allowed	Not allowed

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7. GRADES AND CRITERIA FOR CHECKING

DEFECTS	GRADE-A			GRADE-B			GRADE-C		
	MINOR	MAJOR	SERIOUS	MINOR	MAJOR	SERIOUS	MINOR	MAJOR	SERIOUS
BRUISED MARKS	5-10% surface area	Allowed >10% surface area	N.A.	10-20% surface area	>20% surface area	N.A.	N.A.	N.A.	N.A.
LATEX SPOTS	5-20% surface area	Allowed >20% surface area	N.A.	Allowed 10 - 20% surface area	Allowed >20% surface area	N.A.	N.A.	N.A.	N.A.
PACKING DAMAGE	Allowed > 10% surface area	N.A.	N.A.	>25% surface area	N.A.	N.A.	N.A.	N.A.	N.A.
SHRIVELED	Slight shriveled	Allowed	N.A.	Allowed	N.A.	N.A.	N.A.	N.A.	N.A.
DISCOLORATION	Covering up to 20 % surface area	>20% surface area	N.A.	Allowed	N.A.	N.A.	N.A.	N.A.	N.A.
WATERY PATCHES	Up to 10% surface area	Covering >10% surface area	N.A.	Covering > 20% surface area	N.A.	N.A.	N.A.	N.A.	N.A.
MISSHAPE	Slight misshape	Allowed (badly misshape)	N.A.	Allowed (badly misshape)	N.A.	N.A.	N.A.	N.A.	N.A.
SOFT/PRESSURE DAMAGE	Up to 10% surface area	>10% surface area	N.A.	Covering up to 20% surface area	>20% surface area	N.A.	N.A.	Allowed	N.A.
CUT	Deep cut up to 30 mm long	Deep cut >30 mm long	N.A.	Deep cut up to 30 mm long	Deep cut > 30 mm long	N.A.	N.A.	Allowed	N.A.
MECHANICAL DAMAGE	Up to 1 sq. cm surface area	> 1 sq. cm surface area	N.A.	Up to 1 sq. cm surface area	> 1 sq. cm. surface area	N.A.	N.A.	>5% surface area	N.A.
POOR LOOK	N.A.	Allowed	N.A.	Allowed 20 - 30% in a lot	> 30% in a lot	N.A.	Allowed	N.A.	N.A.
SPONGY TISSUE (In case of mango Alphonso)	N.A.	Allowed	N.A.	Allowed	N.A.	N.A.	Allowed	N.A.	N.A.

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HEALED BLACK/BROWN MARKS	10-20% surface area	>20% surface area	N.A.	>20% surface area	N.A.	N
STEM END ROT	Up to1 sq. cm. surface area	>1 sq. cm surface area	N.A.	Up to2 sq. cm. surface area	>2 sq. cm. surface area	N
INSECT DAMAGE	N.A.	Allowed	N.A.	N.A.	Allowed	N
DISEASED	N.A.	N.A.	Up to1% in a lot.	N.A.	N.A.	Up to2 l
ROTTING/FUNGAL INFECTED	N.A.	N.A.	Up to1% in a lot	N.A.	N.A.	Up to2 l

N.A. – Not Applicable

NOTE:

1. Percentage of defects allowed or disallowed in a particular grade will be determined based on weight in a sample lot.
2. More than one defect in an individual piece will be considered as major defect.
3. Extent of defect not covered in minor, major & serious categories of Grade A, B & C, means it is allowed in that particular grade.

8. DEFECT & SIZE TOLERANCE (BY WEIGHT)

DEFECT TOLERANCE	GRADE-A	GRADE-
MINOR DEFECTS	10%	20%
MAJOR DEFECTS	2%	10%
SERIOUS DEFECTS	1%	2%
SIZE TOLERANCE	10%	20%

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