



QUALITY STANDARDS

SPECIFICATIONS FOR PEAR (PNFPL0011)

Naspati (Hindi), Mara sebu (Kannada), Berikaya (Telugu)

1. PEAR VARIANTS

Pear Kashmir (0162010000)
Pear Nakh (0162020000)

Pear Watlet (0162030000)
Pear William (0162040000)

2. GENERAL CHARACTERISTICS

Pear shall be clean, firm, and mature and shall have color and shape characteristics of variety. Pear shall not be over ripe, soft and misshaped and shall be free from cuts/cracks, holes, bruises, black/brown spots, russeting and any type of damage caused by hail, packing, pressure and mechanical means. Pear shall be sound and free from rotting, fungal infection, insect and disease infestation. Pear shall be harvested in semi ripe condition so that it could withstand transport and handling damage to arrive in satisfactory condition at the final destination.

3. SAMPLING PLAN

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

4. GRADES

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

5. SIZE

VARIANTS	GRADE-A (Dia. in mm)	GRADE-B (Dia. in mm)	GRADE-C (Dia. in mm)
PEAR WILLIUM	46-70	35-45	Any size
PEAR NAKH	> 55	35-55	
PEAR KASHMIR	36-45	25-35	
PEAR WATLET	46-70	35-45	

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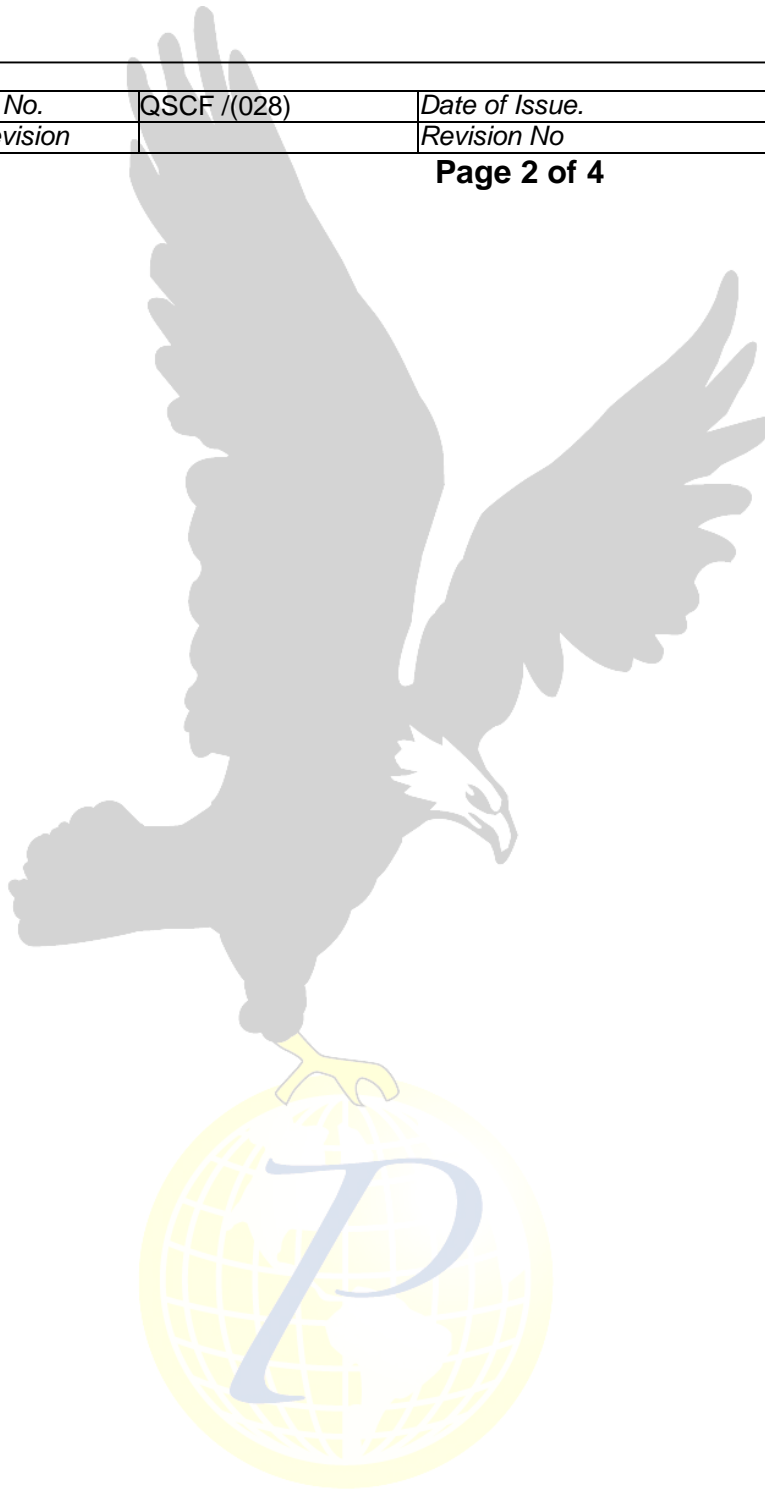
6. QUALITY PARAMETERS

DEFECTS	GRADE-A	GRADE-B	GRADE-C
MISSHAPE	Not allowed	Allowed (slight misshape)	Allowed
RUSSETING	Allowed upto 10% surface area	Allowed	Allowed
BLACK/BROWN SPOTS ON SURFACE	Allowed upto 5% surface area	Allowed up to 10% surface area	Allowed upto 20% surface area
HAIL DAMAGE	Allowed upto 10% surface area	Allowed upto 20% surface area	Allowed
BRUISES	Allowed upto 5% surface area	Allowed upto 10% surface area	Allowed
HOLES	Not allowed	Allowed upto 2 holes	Allowed
CUT/CRACK	Not allowed	Allowed deep cut/crack upto 2cm long	allowed
MECHANICAL DAMAGE	Not allowed	Not allowed	Not allowed
SOFT/OVER RIPE	Not allowed	Not allowed	Allowed
IMMATURE	Not allowed	Not allowed	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
MISSHAPE	Slight misshape	Allowed	N.A.	Allowed	N.A.	N.A.	Allowed	N.A.	N.A.
RUSSETING	Covering 10-20% surface area	Covering >20% surface area	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BLACK/BROWN SPOTS ON SURFACE	Covering 5-10% surface area	Covering >10% surface area	N.A.	Covering 10-20% surface area	Covering >20% surface area	N.A.	Covering 20-30% surface area	Covering >40% surface area	N.A.
HAIL DAMAGE	Covering 10-20% surface area	Covering >20% surface area	N.A.	Covering >20% surface area	N.A.	N.A.	N.A.	N.A.	N.A.
BRUISES	Covering 5-10% surface area	Covering >10% surface area	N.A.	Covering 10-20% surface area	Covering >20% surface area	N.A.	N.A.	N.A.	N.A.
HOLES	Up to 2 holes of <2mm. dia	>2 Holes of <2 mm dia or Up to 1 hole of >2 mm dia	N.A.	2-5 holes of < 2 mm dia or Up to 2 holes of >2 mm. dia	>5 holes of <2 mm dia or >5 holes of >2 mm dia	N.A.	N.A.	N.A.	N.A.
CUT/CRACK	Deep cut/crack Up to 2 cm. long	Deep cut/crack >2cm. long.	N.A.	Deep cut/crack 2-3cm long	Deep cut/crack >3 cm. long	N.A.	Allowed	N.A.	N.A.
MECHANICAL DAMAGE	Covering Up to 0.5 sq. cm. surface area	Covering >0.5sq. cm. surface area.	N.A.	Covering up to 0.5 sq. cm. surface area	Covering >0.5 sq. cm. surface area.	N.A.	Any injury covering up to 0.5 sq.cm surface area.	Any injury >0.5 sq. cm. surface area.	N.A.
SOFT/OVER RIPE	Slight soft	Allowed	N.A.	Allowed	N.A.	N.A.	N.A.	N.A.	N.A.
IMMATURE	N.A.	Allowed	N.A.	N.A.	Allowed	N.A.	Allowed	N.A.	N.A.

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INSECT DAMAGE	N.A.	Allowed	N.A.	N.A.	Allowed	N.
DISEASED	N.A.	N.A.	Up to 1% in a lot	N.A.	N.A.	Up lot
ROTTING/ FUNGAL INFECTED	N.A.	N.A.	Up to 1% in a lot	N.A.	N.A.	Up lot

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-B	GRADE-C
MINOR DEFECTS	10%	20%	100%
MAJOR DEFECTS	2%	10%	50%
SERIOUS DEFECTS	1%	2%	5%
SIZE TOLERANCE	10%	20%	N.A.

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