



QUALITY STANDARDS

SPECIFICATIONS FOR LITCHI (PNFPL0005)

1. GENERAL CHARACTERISTICS

Litchi shall be fresh, clean, firm, red greenish/brown in color with round/oval shape and shiny look characteristics of variety. Litchi shall be free from dry skin, discoloration, Brown/black spots, ruptured skin, misshape, soft, cut/crack, blemishes, bruises, dry/woody fruit stalk, holes and any type of damage caused by pressure and mechanical means. Litchi shall be with stalk and tied in bunches. Litchi shall be sound and free from rotting, fungal infection, insect and disease infestation.

2. SAMPLING PLAN

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

3. GRADES

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

4. SIZE

	GRADE-A	GRADE-B
Diameter (mm)	>35	30-35

Panama
Corporation Limited

Document No.	QSCF /(020)	Date of Issue.	01.02.2021
Date of Revision		Revision No	
Prepared by (Signature)	Approved by (Signature)		

Page 1 of 3

5. QUALITY PARAMETERS

DEFECTS	GRADE-A	GRADE-B
MISSHAPE	Not allowed	Allowed (slight misshape)
DRY SKIN	Not allowed	Not allowed
DISCOLORATION	Allowed upto 10% surface area	Allowed
DRY AND WOODY STALK	Not allowed	Allowed
BLACK/BROWN SPOTS ON SURFACE	Allowed upto 10% surface area	Allowed upto 20% surface area
WITHOUT STALK	Not allowed	Allowed
BRUISES	Allowed upto 10% surface area	Allowed upto 20% surface area
MECHANICAL DAMAGE	Not allowed	Not allowed
PRESSURE DAMAGE	Not allowed	Not allowed
HOLES	Not allowed	Allowed upto 2 minor holes
CUT/CRACK/SPLIT	Not allowed	Not allowed
BLEMISHES	Allowed upto 10% surface area	Allowed upto 20% surface area
RUPTURED SKIN	Not allowed	Not allowed
SOFT	Not allowed	Allowed (Slight soft)
INSECT DAMAGE	Not allowed	Not allowed
DISEASED	Not allowed	Not allowed
ROTTING/ FUNGAL INFECTED	Not allowed	Not allowed

6. GRADES AND CRITERIA FOR CHECKING

DEFECTS	GRADE-A			GRADE-B		
	MINOR	MAJOR	SERIOUS	MINOR	MAJOR	SERIOUS
MISSHAPE	Allowed (Slight misshape)	Allowed	N.A.	Allowed	N.A.	N.A.
DRY SKIN	N.A.	Allowed	N.A.	N.A.	Allowed	N.A.
DISCOLORATION	10-25% surface area	>25% surface area	N.A.	N.A.	N.A.	N.A.
DRY AND WOODY STALK	Allowed	N.A.	N.A.	N.A.	N.A.	N.A.
BLACK/ BROWN SPOTS ON SURFACE	10-20% surface area	>20% surface area	N.A.	20-50% surface area	>50% surface area	N.A.
WITHOUT STALK	Allowed	N.A.	N.A.	N.A.	N.A.	N.A.
BRUISES	10-20% surface area	>20% surface area	N.A.	20-50% surface area	>50% surface area	N.A.
MECHANICAL DAMAGE	Covering 0.5 sq.cm. surface area	Covering > 1 sq.cm. surface area	N.A.	Covering up to 0.5 sq.cm. surface area	Covering > 1 sq.cm. surface area	N.A.

Document No.	QSCF / (020)	Date of Issue.	01.02.2021
Date of Revision		Revision No	

Page 3 of 3

DEFECTS	GRADE-A			GRADE-B		
	MINOR	MAJOR	SERIOUS	MINOR	MAJOR	SERIOUS
PRESSURE DAMAGE	N.A.	Allowed	N.A.	N.A.	Allowed	N.A.
HOLES	Up to 2 minor holes	>2 minor holes	N.A.	2-4 minor holes	>4 minor holes	N.A.
CUT/CRACK/SPLIT	Deep cut/crack/split 1 cm. long	Deep cut/crack / split >1 cm. long.	N.A.	Deep cut/crack/split 1 cm long	Deep cut/crack/split >1 cm. long	N.A.
BLEMISHES	10-20% surface area	>20% surface area	N.A.	20-50% surface area	>50% surface area	N.A.
RUPTURED SKIN	Up to 0.5 sq. cm. surface area	>0.5 sq. cm. surface area	N.A.	Up to 0.5 sq. cm. surface area	> 0.5 sq. cm. surface area	N.A.
SOFT	Allowed (Slight soft)	Allowed	N.A.	Allowed	N.A.	N.A.
INSECT DAMAGE	N.A.	Allowed	N.A.	N.A.	Allowed	N.A.
DISEASED	N.A.	N.A.	≤1% in a lot	N.A.	N.A.	≤2% in a lot
ROTTING/FUNGAL INFECTED	N.A.	N.A.	≤1% in a lot	N.A.	N.A.	≤2% in a lot

N.A. - Not Applicable

NOTE:

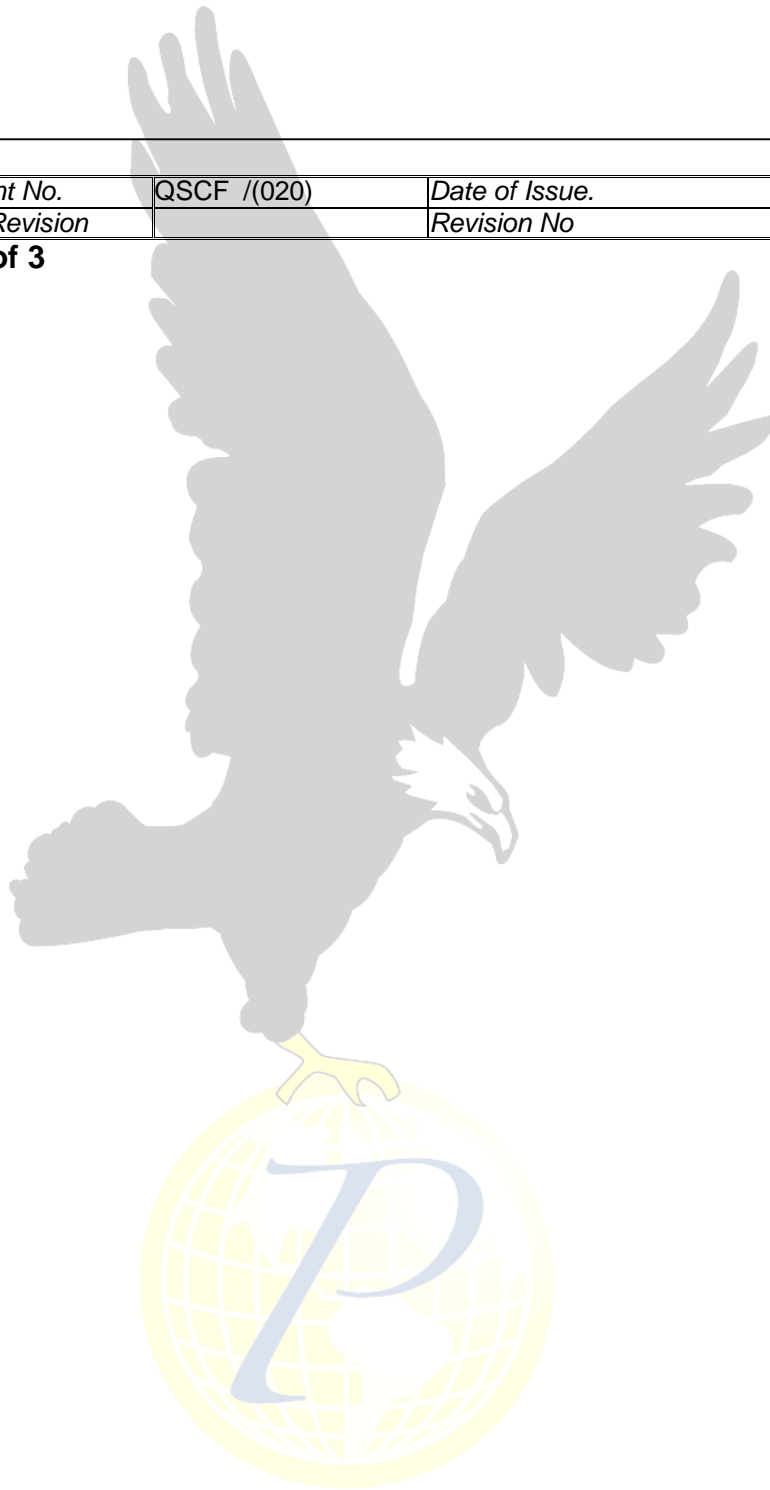
1. Percentage of defects allowed or disallowed in a particular grade will be determined based on weight in a sample lot.
2. More than one defect in an individual piece will be considered as major defect.
3. Extent of defect not covered in minor, major & serious categories of Grade A and B means it is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

7. DEFECT & SIZE TOLERANCE (BY WEIGHT)

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

<i>Document No.</i>	QSCF / (020)	<i>Date of Issue.</i>	01.02.2021
<i>Date of Revision</i>		<i>Revision No</i>	

Page 3 of 3



Panama
Corporation Limited