

Catalogue of Indigenous Potato Varieties based on Morphological Descriptors



**ICAR-Central Potato Research
Institute, Shimla (H.P.)**



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Preface

Potato is a non-native crop of the Indian sub-continent. The centre of origin of potato goes back to the Andean mountainous regions of Peru and Bolivia. Potato was introduced in India from Europe in the beginning of 17th century probably by the Portuguese traders or British missionaries. The introduced long day adapted potato genotypes were not suitable to Indian conditions. However, chance selection as survivors of early introductions or naturally occurring variants led to a group of potato varieties, non-European in origin, known as *Indigenous* or *Desi* varieties that are known by different local names in the diverse dialects. *Desi* varieties are either *Solanum tuberosum* Group Andigenum or hybrids of *S. tuberosum* Group Tuberosum and *S. tuberosum* Group Andigenum. These groups of varieties have distinguished characteristics of local adaptation, tolerance to abiotic stresses i.e. heat and drought, slower rate of degeneration, shorter dormancy, preferred culinary properties in terms of taste, lesser cooking time, early maturity etc.

Morphological characterization is the basic tool to study relationships among cultivars and thus, facilitates genotypic identification. Characterization leads to the process of recording and storing useful data that can be easily retrieved for further usage. India, being signatory to the General Agreement on Trade and Tariffs (GAAT), has enacted a *Sui generis* system, Protection of Plant Varieties and Farmers' Right Act (PPV&FRA), 2001 for providing protection to plant varieties based on Distinctiveness, Uniformity and Stability (DUS) test. Under the preview of this act guidelines for the conduct of DUS test of potato was developed based on 51 descriptors including both qualitative and quantitative traits.

In the present compilation on “**Catalogue of Indigenous Potato Varieties based on Morphological Descriptors**”, an attempt has been made to document *Desi* potato varieties based on 51 DUS morphological descriptors recorded at two independent similar growing seasons for lightsprout, plant, stem, foliar and tuber characteristics at CPRI, Regional Station, Modipuram, Meerut (UP), and flower characteristics at ICAR-CPRI, Kufri-Fagu Unit, Shimla (HP).

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1. Aber Chaibi (Location: Imphal, Manipur)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Pink (5)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Yellow (4)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Stippled (6)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Deep (4)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream(2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Aber Chaibi



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

2. AGR/56 (Location: Kashmir Valley, J&K)

Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Absent (1)	Corolla colour	White (1)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Round (1)
Wing	Poorly developed (1)	Stigma lobe	Unilobed (1)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

AGR/56



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

3. Assamia aloo (Location: Jorhat, Assam)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Absent (1)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	States (Notes)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Tall (7)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Round (1)
Wing	Poorly developed (1)	Stigma lobe	Unilobed (1)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Whitish cream (2)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Present on eyebrow only (3)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Flattened (1)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Protruding (1)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Assamia aloo



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

4. Australian White (Location: Midnapore, WB)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Absent (1)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Brown (4)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Rough (2)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

4904Australian



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

5. Badami alu (Location: Sonapur, Assam; Kashivada & Jalpaigudi, WB)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Throughout highly scattered (5)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Present only at the base (2)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Small (3)	Skin type	Smooth (1)
Width (cm)	Narrow (3)	Shape	Reniform (7)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Reddish purple (5)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	Vascular ring (5)

Badami alu



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

6. Bareilly Red (Location: Bareilly, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Purple (4)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Through out highly scattered (5)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Purple (8)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Narrow (3)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Reddish purple (5)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	Vascular ring (5)

Bareilly Red



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

7. Bengal Jyoti (Location: Nalanda, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Oblong (4)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Bengal Jyoti



LS: Predominant colour



Plant: Foliage structure



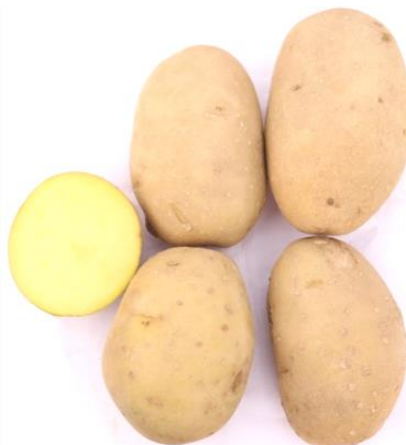
Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

8. Beeta (Location: Gangtok, Sikkim)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	At the middle (2)
Pubescence base	Absent (1)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Present only at the base (2)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Beeta



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

9. Bhura aloo (Location: Dholi, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red- brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Deep (4)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Bhura aloo



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

10. Burma Special (Location: Imphal, Manipur)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple(3)	Anthocyanin colouration of bud	Present (9)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Long (7)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Semi- compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Irregular (2)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Trilobed (3)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Burma Special



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



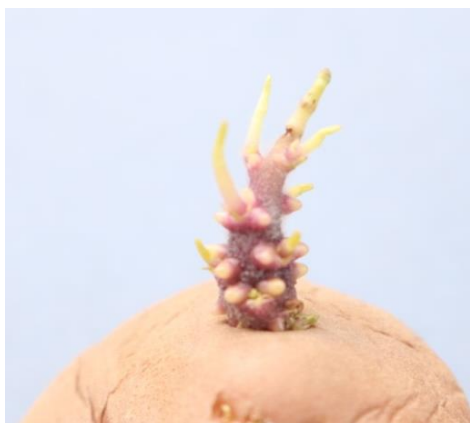
Corolla colour



**Tuber: Predominant skin
and flesh colour**

11. C-9 Patna (Location: Patna, Bihar)			
Lighsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Strong (7)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Strong (7)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

C-9 Patna



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

12. Champaran Lal (Location: Champaran, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Champaran Lal



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

13. Clone-1 (Location: Midnapore, WB)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Tall (7)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Broad (7)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Clone-1



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

14. Desi alu (Location: Chamba, HP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Ant colouration of bud	Absent (1)
Shape	Spherical (1)	Ant colouration of floral stalk	Absent (1)
Int of Ant colouration at base of sprout	Light (3)	Ant colouration of pedicel articulation	Absent (1)
Int of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Ant colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Int of Ant colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Int of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Yellow (2)
Ant colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Ant colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Desi alu



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



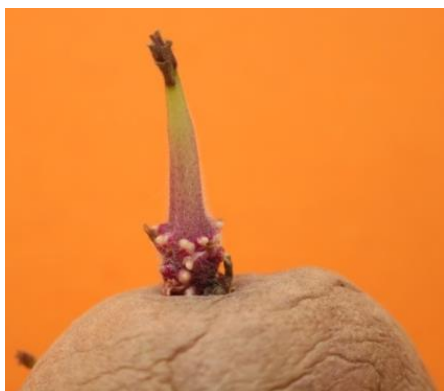
Corolla colour



**Tuber: Predominant skin
and flesh colour**

15. Deshla Lal (Location: Nalanda, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi- compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular (2)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Round (1)
Wing	Poorly developed (1)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth(1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Strong (7)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Deshla Lal



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

16. Dhankri/Tumri (Location: Rampur & Kinnaur, HP; Tihri, Uttarakhand)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Ant colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Long-oblong (6)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent(1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Dhankri/Tumri



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



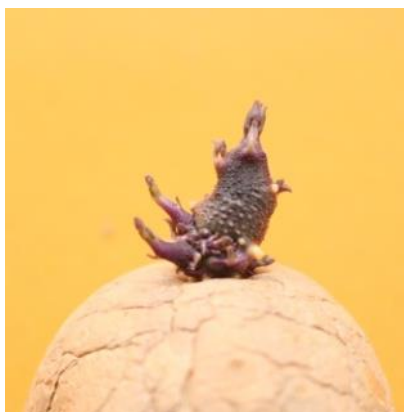
Corolla colour



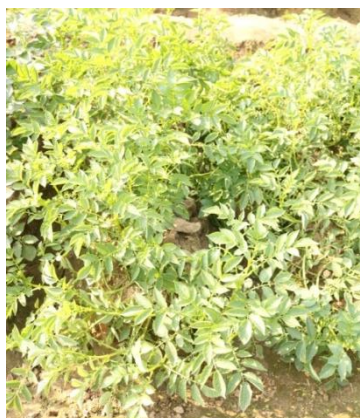
Tuber: Predominant skin colour

17. DRR Blue (Location: Allahabad, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Purple(4)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Dark (7)	Pedicel articulation position	At the middle (2)
Pubescence base	Absent (1)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Open (3)	Ant colouration of outer side in white flowers	Absent (1)
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Purple (8)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth(1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Dark purple (6)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	Vascular ring (5)

DRR Blue



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

18. DRR Red (Location: Allahabad, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi- compact (2)	Ant colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Tall (7)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal(1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

DRR Red



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



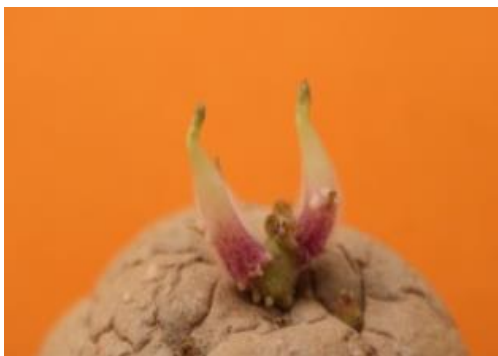
Corolla colour



**Tuber: Predominant skin
and flesh colour**

19. Dwarf Culture (Location: Patna, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Deep (4)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Dwarf Culture



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

20. Dehati alu (Location: Patna , Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Small (3)
Plant and stem Traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Throughout lightly scattered (4)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf Traits	States (Notes)	Tuber Traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Dehati Alu



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

21. Desi No.1 (Location: Patna, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Compact (1)	Ant colouration of outer side in white flowers	Present (9)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Throughout lightly scattered (4)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Oval (5)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Desi No.1



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

22. Desi No. 2 (Location: Patna, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Ant colouration of bud	Present (9)
Shape	Cylindrical (3)	Ant colouration of floral stalk	Weak (3)
Intensity of Ant colouration at base of sprout	Medium (5)	Ant colouration of pedicel articulation	Present (9)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Ant colouration of outer side in white flowers	Present (9)
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Tall (7)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Throughout highly scattered (5)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Red (6)
Ant colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Ant colouration of midrib	Present only at the base (2)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Rough (2)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Desi No. 2



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

23. G-4 (Location: Farrukhabad, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Ant colouration of bud	Present (9)
Shape	Spherical (1)	Ant colouration of floral stalk	Absent (1)
Intensity of Ant colouration at base of sprout	Light (3)	Ant colouration of pedicel articulation	Absent (1)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Ant colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed ()
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Ant colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Ant colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Oblong (4)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

G-4



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

24. Garlentic (Location: Kanpur, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Garlentic



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

25. Gulabia (Location: Dholi, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Ant colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Irregular (2)
Secondary colouration	Red- brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Whitish cream (2)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Stippled (6)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Gulabia



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

26. Gulmarg Special (Location: Gulmarg, J&K)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Ant colouration of bud	Absent (1)
Shape	Cylindrical (3)	Ant colouration of floral stalk	Absent (1)
Intensity of Ant colouration at base of sprout	Medium (5)	Ant colouration of pedicel articulation	Absent (1)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Long (7)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Ant colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Ant colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Ant colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Oblong (4)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Gulmarg Special



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

27. Hamraj Hatti (Location: Nalanda, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Ant colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Hamraj Hatti



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



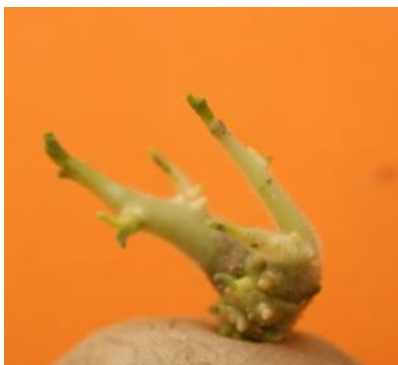
Corolla colour



Tuber: Predominant skin and flesh colour

28. Jalandhar (Location: Jalandhar, Punjab)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Orange (3)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Jalandhar



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

29. Jeevan Jyoti (Location: Burdwan, WB)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Purple (4)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi -compact (2)	Ant colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Jeevan Jyoti



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

30. Kala aloo (Location: Lahaul-Spiti, HP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Blue (5)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Ant colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Dark (7)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Open (3)	Ant colouration of outer side in white flowers	Present (9)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Irregular (2)
Stem Predominant colour	Red -brown (2)	Pistil type	Normal (1)
Secondary colouration	Green (2)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Throughout lightly scattered (4)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Dark purple-black (9)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Present only at the base (2)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Small (3)	Skin type	Smooth (1)
Width (cm)	Narrow (3)	Shape	Ovoid (3)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Dark purple (6)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	Mottled (6)

Kala aloo



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

31. K-22 (Location: Midnapore, WB; Farrukhabad, UP)

Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal(1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Strong (7)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

K-22



LS: Predominant colour



Plant: Foliage structure



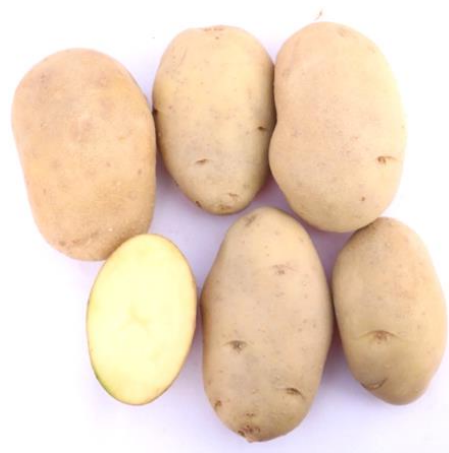
Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

32. Kacha Bhutia (Location: Gangtok, Sikkim)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Ant colouration at sprout tip	Dark (7)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular (2)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Profuse (7)
Leaf Traits	States (Notes)	Tuber Traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Kacha Bhutia



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

33. Kanpuria Safed (Location: Kanpur, UP)

Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Oblong (4)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Kanpuria Safed



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



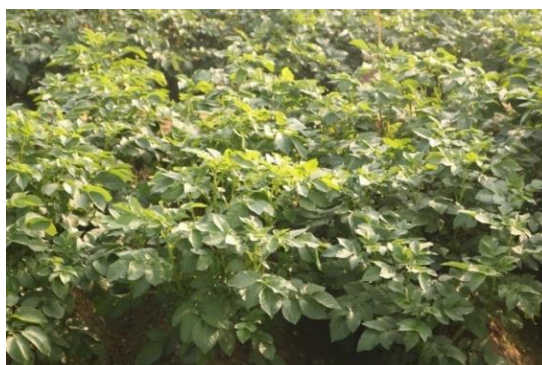
**Tuber: Predominant skin
and flesh colour**

34. KP/PC-292 (Location: Nakodar, Punjab)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem Traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Orange (3)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Whitish cream (2)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Present on eyebrow only (3)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

KP/PC-292



LS: Predominant colour



Plant: Foliage structure



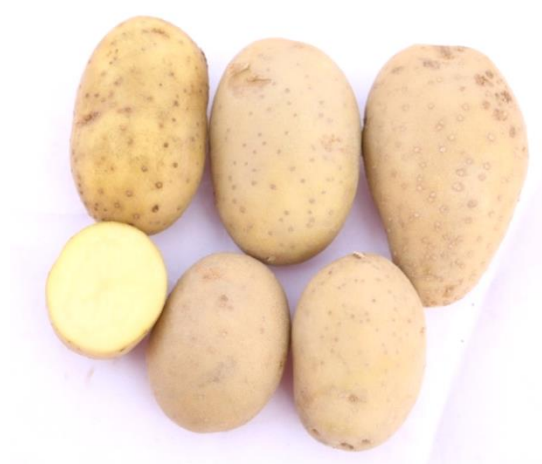
Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

35. Lal Ankh (Location: Jorhat, Assam)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Protruding (1)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lal Ankh



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

36. Lal Gulab (Location: Farrukhabad, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red-purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Compact (1)	Ant colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Flattened (1)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lal Gulab



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

37. Lal Jyoti (Location: Burdwan, WB)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Compact (1)	Ant colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Deep (4)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lal Jyoti



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

38. Lal Laukar (Location: Mau, MP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Semi-compact (2)	Ant colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf Traits	States (Notes)	Tuber Traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Whitish cream (2)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Confined to eyes (2)
Length (cm)	Large (7)	Skin type	Rough (2)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lal Laukar



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

39. Lal Mitti-1 (Location: Nalanda, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Present only at the base (2)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lal Mitti-1



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

40. Lal Mitti-2 (Location: Nalanda, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Ant colouration of bud	Present (9)
Shape	Cylindrical (3)	Ant colouration of floral stalk	Medium (5)
Intensity of Ant colouration at base of sprout	Light (3)	Ant colouration of pedicel articulation	Present (9)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Open (3)	Ant colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Through out highly scattered (5)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Ant colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Ant colouration of midrib	Present throughout (3)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lal Mitti-2



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

41. Lah Arpor (Location: Shillong, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Ant colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Strong (5)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Ant colouration of corolla on inner side	Medium (5)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Trilobed (3)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Ant colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Ant colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Arpor



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

42. Lah Polin (Location: Shillong, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Absent (1)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Long (7)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent 1
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Polin



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

43. Lah Sarkari (Location: Tura, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at the base (2)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Brown (4)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Sarkari



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

44. Lah Saw (Location: Shillong, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Trilobed (3)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Red (6)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Stippled (6)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Saw



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

45. Lah Saw Khasi (Location: Tura, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Red (6)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Stippled (6)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Saw Khasi



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

46. Lah Saw Smit (Location: Shillong, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Irregular (2)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Saw Smit



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

47. Lah Syntiew (Location: Shillong, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	Present (9)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (3)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Oval (5)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Strong (7)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Synthiew



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

48. Lah Tora (Location: Shillong, Meghalaya)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Through out lightly scattered (4)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Lah Tora



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

49. Nainital (Location: Kokrajhar, Assam; Kishan Ganj, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Oblong (4)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Nainital



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

50. ON-1645 (Location: Birbhum, WB; Khajuri & Farrukhabad, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

ON-1645



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

51. Phulwa Red (Location: Jorhat, Assam)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Pink (2)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Strong (5)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Red (6)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Phulwa Red



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

52. Phulwa Red Splashed (Location: Jorhat, Assam)

Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen Column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Pink (5)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Whitish cream (2)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Present on eyebrow only (3)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Protruding (1)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Phulwa Red Splashed



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

53. Phulwa White (Location: Jorhat, Assam)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	At the middle (2)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Round (1)
Wing	Highly developed (2)	Stigma lobe	Unilobed (1)
Wing type	Straight (1)	Premature bud dropping	Present (9)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Flattened (1)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Phulwa White



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

54. PS-4904 (Location: Patna, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Purple (4)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Present (9)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Trilobed (3)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

PS-



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

55. PSK-76 (Location: Basti, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Absent (1)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

PSK-76



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

56. Rangpuria (Location: Cooch Behar, WB)

Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Tall (7)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Late (7)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Yellow (3)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Rangpuria



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

57. Red Flesh (Location: Patna, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Purple (4)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	At the middle (2)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Purple (3)	Pistil type	Normal (1)
Secondary colouration	Red -brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Through out highly scattered (5)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Purple (8)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Present throughout (3)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Narrow (3)	Shape	Round (2)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Deep (4)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Reddish purple (5)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	Inner cortex (2)

Red Flesh



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



Tuber: Predominant skin and flesh colour

58. Sathoo (Location: Kinnaur & Chamba, HP)

Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Sathoo



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

59. Sisa Pani (Location: Patna, Bihar)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Purple (4)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Dark (7)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Dark (7)	Pedicel articulation position	Above the middle (3)
Pubescence base	Absent (1)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi-compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Equal (2)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Purple (8)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Narrow (3)	Shape	Round (2)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Deep (4)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Sisa Pani



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

60. Var 3797 (Location: Allahabad, UP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Solid (1)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Wavy (2)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Close (3)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Ovate (4)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

Var 3797



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

61. VB-8 (Location: Shimla, HP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at base (2)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Round (2)
Leaflet (lateral) shape	Lanceolate (2)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

VB-8



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

62. V2-2912 (Location: Shimla, HP)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Conical (2)	Anthocyanin colouration of floral stalk	Medium (5)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Present (9)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red-violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Open (3)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Medium (5)
Cross section	Angular (2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Early (3)	Intensity of flowering	Profuse (7)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Medium deep (3)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	White (1)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

V2-2912



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

63. 1001 (Location: Nakodar, Punjab)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	White-green (1)	Anthocyanin colouration of bud	Absent (1)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Absent (1)
Intensity of Anthocyanin colouration at base of sprout	Light (3)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Strong (5)	Corolla colour	White (1)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Large (7)
Plant and stem traits	States (Notes)	Inflorescence: Size	Large (7)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Round (1)	Anther colour	Orange (3)
Height of main stem (cm)	Small (3)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed (2)	Stigma lobe	Bilobed (2)
Wing type	Straight (1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Yellow (2)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Ovate lanceolate (3)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Strong (7)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

1001



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



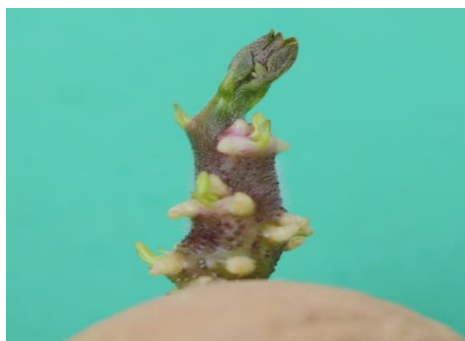
Corolla colour



**Tuber: Predominant skin
and flesh colour**

64. 1007 (Location: Nakodar, Punjab)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Absent (1)
Shape	Cylindrical (3)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Medium (5)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	White (1)
Length of apical sprout (cm)	Medium (5)	Corolla size (diameter in cm)	Medium (5)
Plant and stem traits	States (Notes)	Inflorescence: Size	Medium (5)
Foliage structure	Compact (1)	Anthocyanin colouration of outer side in white flowers	Absent (1)
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Absent (1)
Cross section	Angular(2)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green(1)	Pistil type	Normal (1)
Secondary colouration	Red-brown (3)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Only at lower node (3)	Stigma shape	Lobed (2)
Wing	Highly developed(2)	Stigma lobe	Bilobed (2)
Wing type	Straight(1)	Premature bud dropping	Absent (1)
Time of maturity (days)	Medium (5)	Intensity of flowering	Medium (5)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Open (1)	Predominant skin colour	Orange (3)
Anthocyanin colouration of rachis	Absent (1)	Secondary skin colour	Whitish cream (2)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Present on eyebrow only (3)
Length (cm)	Large (7)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Ovoid (3)
Leaflet (lateral) shape	Narrow lanceolate (1)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Weak (3)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Weak (3)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

1007



LS: Predominant colour



Plant: Foliage structure



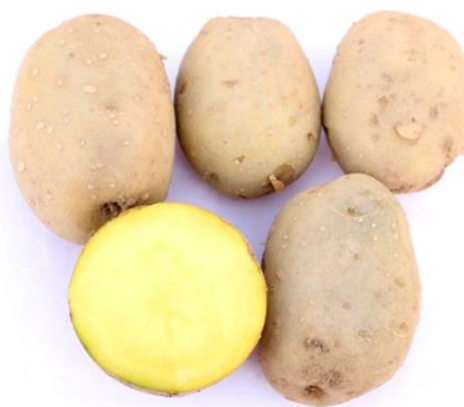
Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

65. 1591/11 (Location: Midnapore, WB)			
Lightsprout traits	States (Notes)	Flower traits	States (Notes)
Predominant colour	Red purple (3)	Anthocyanin colouration of bud	Present (9)
Shape	Spherical (1)	Anthocyanin colouration of floral stalk	Weak (3)
Intensity of Anthocyanin colouration at base of sprout	Medium (5)	Anthocyanin colouration of pedicel articulation	Absent (1)
Intensity of Anthocyanin colouration at sprout tip	Light (3)	Pedicel articulation position	Above the middle (3)
Pubescence base	Weak (3)	Corolla colour	Red -violet (2)
Length of apical sprout (cm)	Small (3)	Corolla size (diameter in cm)	Small (3)
Plant and stem traits	States (Notes)	Inflorescence: Size	Small (3)
Foliage structure	Semi -compact (2)	Anthocyanin colouration of outer side in white flowers	NA
Stem solidity	Hollow (2)	Intensity of Anthocyanin colouration of corolla on inner side	Weak (3)
Cross section	Round (1)	Anther colour	Yellow (2)
Height of main stem (cm)	Medium (5)	Anther cone type	Normal (1)
Stem Predominant colour	Green (1)	Pistil type	Normal (1)
Secondary colouration	Absent (1)	Stylar length (in comparison to stamen column)	Longer (3)
Distribution of secondary colour	Absent (1)	Stigma shape	Lobed (2)
Wing	Poorly developed (1)	Stigma lobe	Trilobed (3)
Wing type	Wavy (2)	Premature bud dropping	Present (9)
Time of maturity (days)	Early (3)	Intensity of flowering	Sparse (3)
Leaf traits	States (Notes)	Tuber traits	States (Notes)
Structure	Intermediate (2)	Predominant skin colour	Whitish cream (1)
Anthocyanin colouration of rachis	Present (9)	Secondary skin colour	Absent (1)
Anthocyanin colouration of midrib	Absent (1)	Distribution of secondary skin colour	Absent (1)
Length (cm)	Medium (5)	Skin type	Smooth (1)
Width (cm)	Medium (5)	Shape	Oblong (4)
Leaflet (lateral) shape	Lanceolate (2)	Depth of eye	Shallow (2)
Leaflet: Waviness of margin	Medium (5)	Predominant colour of flesh	Cream (2)
Leaflet: Glossiness of upper side	Medium (5)	Secondary colour of flesh	Absent (1)
Pubescence of blade at apical rosette	Present (9)	Distribution of secondary colour of flesh	NA

1591/11



LS: Predominant colour



Plant: Foliage structure



Stem: Predominant colour



Leaf: Structure



Corolla colour



**Tuber: Predominant skin
and flesh colour**

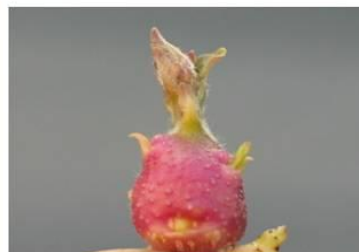
Explanations on the DUS characteristics



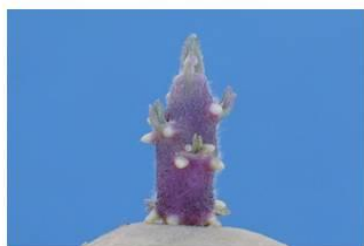
White- green



Pink



Red purple

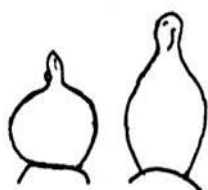


Purple



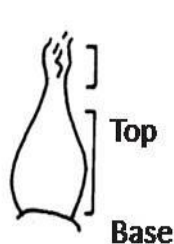
Blue

Lightsprout: predominant colour



1

Spherical



2

Conical



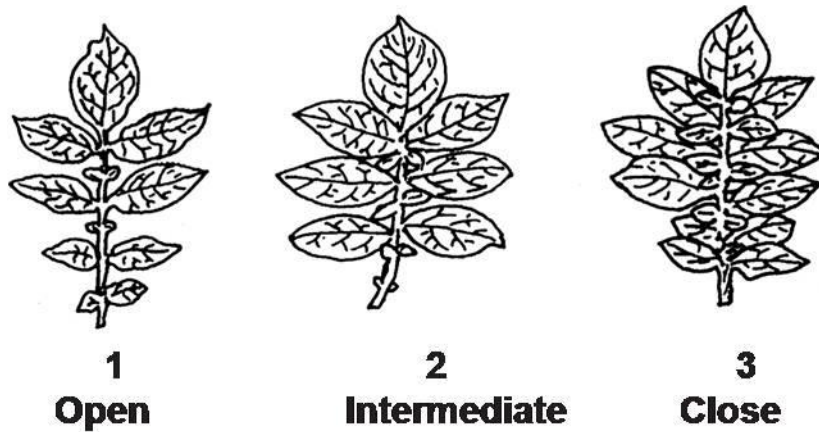
3

Cylindrical

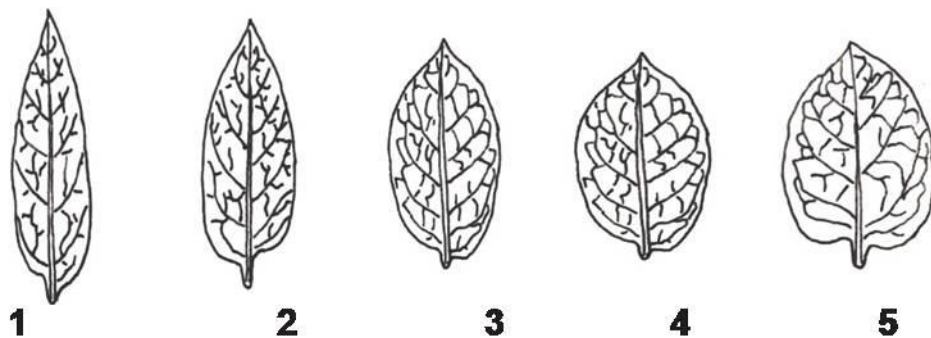
Lightsprout: Shape



Stem: Cross section



Leaf: Structure



Narrow-lanceolate Lanceolate Ovate lanceolate Ovate Oval

Leaf: Leaflet (lateral) shape

To be observed on fully expanded lateral leaflets in upper part of the stem.



Greenish yellow



Yellow

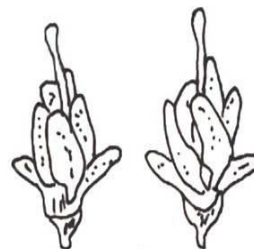


Orange

Flower: anther colour



**1
Normal**



**2
Irregular**

Flower: Anther cone type



Whitish cream



Yellow



Orange



Brown



Pink



Red



Reddish purple

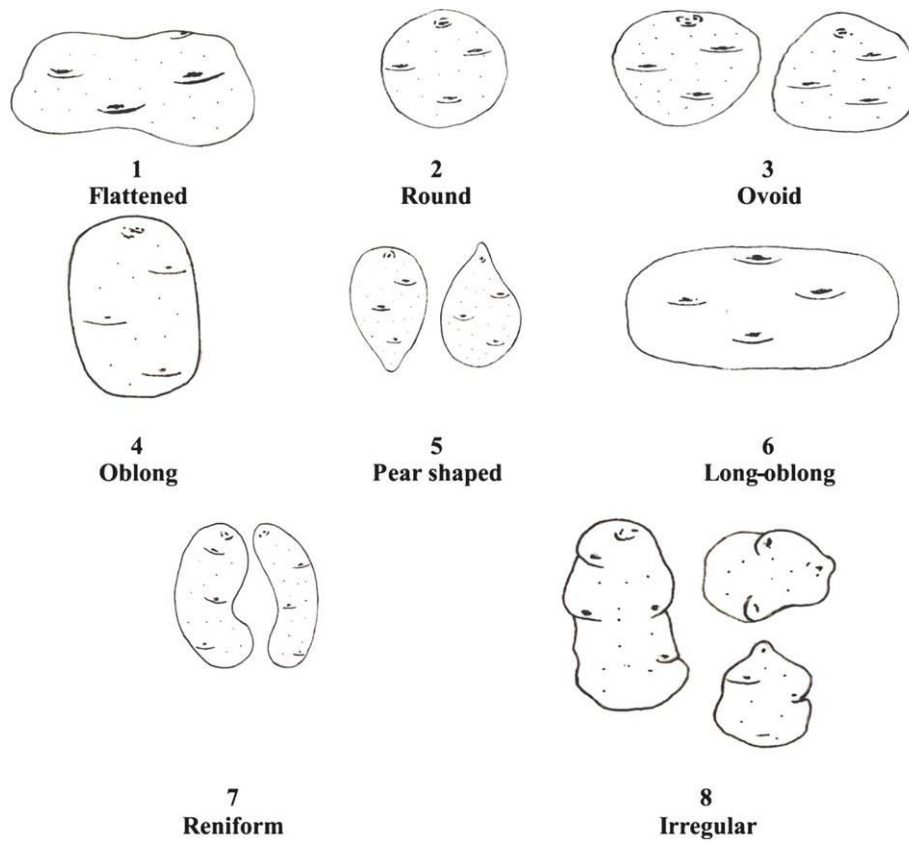


Purple



Dark purple-black

Tuber: Predominant skin colour



Tuber: Shape



Protruding

Shallow

Medium deep

Deep

Tuber: Depth of eye