**Table S1. List of sampling sites of seedling jamun in Mandi, Hamirpur and Kangra district of Himachal Pradesh**

|  |  |  |  |
| --- | --- | --- | --- |
| **Surveyed Trees** | **Area/Village** | **District** | **Location** |
| **Latitude** | **Longitude** |
| **Tree 1** | Baswatar | Mandi | 31o33’54.58” | 76o45’10.56” |
| **Tree 2** | Baswatar | Mandi | 31o33’53.17” | 76o45’10.08” |
| **Tree 3** | Paunta | Mandi | 31o37’22.48” | 76o43’31.94” |
| **Tree 4** | Paunta | Mandi | 31o37’24.09” | 76o43’23.88” |
| **Tree 5** | Mohin | Mandi | 31o38’36.60” | 76o44’31.46” |
| **Tree 6** | Mohin | Mandi | 31o38’38.31” | 76o44’50.75” |
| **Tree 7** | Fatoh | Mandi | 31o34’31.12” | 76o36’59.67” |
| **Tree 8** | Padhian | Mandi | 31o37’04.05” | 76o36’53.05” |
| **Tree 9** | Chanjyani | Mandi | 31o37’01.30” | 76o36’59.48” |
| **Tree 10** | Chanjyani | Mandi | 31o39’13.88” | 76o38’33.07” |
| **Tree 11** | Chanjyani | Mandi | 31o39’12.52” | 76o38’32.95” |
| **Tree 12** | Baswatar | Mandi | 31o39’09.40” | 76o41’44.09” |
| **Tree 13** | Baswatar | Mandi | 31o33’42.55” | 76o44’55.92” |
| **Tree 14** | Manwana | Mandi | 31o33’00.02” | 76o45’06.00” |
| **Tree 15** | Manwana | Mandi | 31o33’07.51” | 76o44’44.93” |
| **Tree 16** | Fafan | Hamirpur | 31o33’07.99” | 76o44’45.26” |
| **Tree 17** | Sammu | Hamirpur | 31o33’14.79” | 76o44’55.59” |
| **Tree 18** | Sammu | Hamirpur | 31o33’52.50” | 76o45’06.08” |
| **Tree 19** | Dadu | Hamirpur | 31o33’51.72” | 76o44’00.99” |
| **Tree 20** | Khara | Hamirpur | 31o33’40.48” | 76o44’53.49” |
| **Tree 21** | Khara | Hamirpur | 31o33’47.70” | 76o44’51.87” |
| **Tree 22** | Jwala ji | Kangra | 31o52’51.97” | 76o18’43.79” |
| **Tree 23** | Gagal | Kangra | 32o09’05.00” | 76o16’21.24” |
| **Tree 24** | Gagal | Kangra | 32o04’07.10” | 76o13’05.81” |
| **Tree 25** | Dehra | Kangra | 31o52’51.10” | 76o12’46.26” |
| **Tree 26** | Ramnidham | Kangra | 31o52’26.85” | 76o17’16.06” |
| **Tree 27** | Ramnidham | Kangra | 31o52’25.52” | 76o17’20.59” |
| **Tree 28** | Bharwada | Kangra | 31o50’03.50” | 76o10’34.47” |
| **Tree 29** | Chintpurni road | Kangra | 31o48’30.15” | 76o05’57.47” |
| **Tree 30** | Salasi | Hamirpur | 31o42’21.80” | 76o28’50.58” |
| **Tree 31** | Jhaniyari | Hamirpur | 31o42’18.32” | 76o28’32.26” |
| **Tree 32** | Khaggal | Hamirpur | 31o41’59.92” | 76o28’35.68” |
| **Tree 33** | Math | Mandi | 31o32’57.21” | 76o46’15.53” |
| **Tree 34** | Math | Mandi | 31o32’57.21” | 76o46’15.30” |
| **Tree 35** | Math | Mandi | 31o32’59.47” | 76o46’10.24” |
| **Tree 36** | Fatoh | Mandi | 31o33’42.29” | 76o44’56.02” |
| **Tree 37** | Jhiralri | Hamirpur | 31o36’02.17” | 76o32’46.50” |
| **Tree 38** | Galoh | Hamirpur | 31o35’31.94” | 76o32’15.85” |
| **Tree 39** | Salouni | Hamirpur | 31o34’56.04” | 76o31’06.56” |
| **Tree 40** | Salouni | Hamirpur | 31o34’57.11” | 76o30’49.34” |
| **Tree 41** | Manwana | Mandi | 31o33’45.18” | 76o44’54.10” |
| **Tree 42** | Palasi | Mandi | 31o32’33.25” | 76o45’35.05” |
| **Tree 43** | Palasi | Mandi | 31o32’47.86” | 76o45’37.46” |
| **Tree 44** | Bhoranj | Hamirpur | 31o38’32.85” | 76o38’21.24” |
| **Tree 45** | Town Bhrari | Hamirpur | 31o38’32.42” | 76o38’21.96” |
| **Tree 46** | Town Bhrari | Hamirpur | 31o35’49.73” | 76o35’23.58” |
| **Tree 47** | Town Bhrari | Hamirpur | 31o35’49.03” | 76o35’23.27” |
| **Tree 48** | Aghar | Hamirpur | 31o36’19.21” | 76o34’38.33” |
| **Tree 49** | Aghar | Hamirpur | 31o36’19.65” | 76o34’37.38” |
| **Tree 50** | Salouni | Hamirpur | 31o36’19.65” | 76o34’37.34” |
| **Tree 51** | Salouni | Hamirpur | 31o35’58.03” | 76o30’42.15” |
| **Tree 52** | Salouni | Hamirpur | 31o35’58.04” | 76o30’41.88” |
| **Tree 53** | Salouni | Hamirpur | 31o35’58.97” | 76o30’39.50” |
| **Tree 54** | Patta | Hamirpur | 31o35’54.48” | 76o36’59.50” |
| **Tree 55** | Thana | Mandi | 31o32’31.31” | 76o47’02.75” |
| **Tree 56** | Kaihri | Mandi | 31o32’30.85” | 76o46’59.39” |
| **Tree 57** | Baldwara | Mandi | 31o32’55.77” | 76o46’09.21” |
| **Tree 58** | Baldwara | Mandi | 31o32’51.55” | 76o46’01.75” |
| **Tree 59** | Baldwara | Mandi | 31o32’57.35” | 76o46’08.99” |
| **Tree 60** | Fatoh | Mandi | 31o33’43.67” | 76o44’57.55” |
| **Tree 61** | Manwana | Mandi | 31o33’48.38” | 76o44’58.39” |
| **Tree 62** | Baswatar | Mandi | 31o33’53.75” | 76o45’08.52” |
| **Tree 63** | Baswatar | Mandi | 31o33’54.07” | 76o76’09.41” |
| **Tree 64** | Paisa khas | Kangra | 31o56’52.38” | 76o15’24.53” |
| **Tree 65** | Paisa khas | Kangra | 31o56’54.17” | 76o15’23.73” |
| **Tree 66** | Kalar khurd | Kangra | 31o59’07.28” | 76o14’02.67” |
| **Tree 67** | Bungwar | Kangra | 31o59’33.20” | 76o13’50.84” |
| **Tree 68** | Bungwar | Kangra | 31o59’46.90” | 76o13’48.95” |
| **Tree 69** | Band | Kangra | 31o59’51.33” | 76o13’50.38” |
| **Tree 70** | Band | Kangra | 31o59’51.70” | 76o13’50.61” |
| **Tree 71** | Band | Kangra | 32o00’15.59” | 76o13’51.31” |
| **Tree 72** | Sapru | Kangra | 32o03’04.02” | 76o10’48.05” |
| **Tree 73** | Chanduha | Kangra | 32o04’27.29” | 76o10’05.11” |
| **Tree 74** | Chanduha | Kangra | 32o04’31.80” | 76o09’52.46” |
| **Tree 75** | Lanj khas | Kangra | 32o05’06.04” | 76o08’04.61” |
| **Tree 76** | Lanj | Kangra | 32o05’00.41” | 76o08’04.62” |
| **Tree 77** | Lahalpur | Kangra | 32o05’08.91” | 76o07’46.20” |
| **Tree 78** | Spail | Kangra | 32o05’08.57” | 76o06’57.11” |
| **Tree 79** | Panol | Kangra | 32o05’07.01” | 76o06’49.71” |
| **Tree 80** | Panol | Kangra | 32o05’06.88” | 76o06’49.12” |
| **Tree 81** | Panol | Kangra | 32o04’21.54” | 76o06’57.13” |
| **Tree 82** | Sapru | Kangra | 32o02’55.12” | 76o10’43.96” |

**Table S2. Tree characteristics of superior selected Jamun genotypes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Accession no.** | **Tree height (cm)** | **Tree canopy area (cm)** | **Trunk girth (cm)** | **Tree habit** | **Tree foliage type** | **Bark colour** |
| **E-W** | **N-S** |
| **Tree 5** | 1185.36 | 713.74 | 960.12 | 147.32 | Spreading | Dense | Grey |
| **Tree 13** | 1106.46 | 571.57 | 744.22 | 99.03 | Spreading | Dense | Grey |
| **Tree 23** | 612.40 | 670.56 | 579.12 | 101.60 | Semispreading | Sparse | Brown |
| **Tree 29** | 516.87 | 373.38 | 497.84 | 99.06 | Spreading | Dense | Grey |
| **Tree 38** | 623.93 | 434.34 | 510.54 | 96.52 | Upright | Dense | Grey |
| **Tree 39** | 2052.62 | 1264.92 | 1115.06 | 274.86 | Spreading | Dense | Light Grey |
| **Tree 40** | 987.23 | 721.36 | 876.30 | 99.06 | Spreading | Sparse | Grey |
| **Tree 43** | 1244.04 | 1325.88 | 1092.20 | 177.80 | Spreading | Sparse | Grey |
| **Tree 44** | 1321.28 | 1300.48 | 2024.38 | 195.58 | Spreading | Dense | Grey |
| **Tree 48** | 1648.28 | 779.78 | 1026.20 | 137.16 | Spreading | Dense | Grey |
| **Tree 49** | 1618.01 | 815.34 | 985.52 | 121.92 | Spreading | Dense | Grey |
| **Tree 52** | 1319.30 | 830.58 | 680.72 | 152.4 | Semispreading | Dense | Brown |
| **Tree 54** | 1126.34 | 861.06 | 652.78 | 127.00 | Semispreading | Sparse | Brown |
| **Tree 60** | 1546.22 | 924.56 | 1033.80 | 153.94 | Spreading | Sparse | Light Grey |
| **Tree 63** | 951.94 | 952.50 | 828.04 | 139.70 | Spreading | Dense | Light Grey |
| **Range** | 516.87 -2052.62 | 373.38 -1325.88 | 497.84 -2024.38 | 96.52 -274.86 | - | - | - |
| **Mean** | 1190.69 ±109.48 | 836.00 ± 74.52 | 907.12 ±96.29 | 143.90 ±11.98 | - | - | - |
| **SD** | 424.02 | 288.60 | 372.92 | 46.39 | - | - | - |
| **CV%** | 35.61 | 34.52 | 41.11 | 32.24 | - | - | - |

###### Table S3. Foliage characters of superior selected seedling jamun genotype

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession no.** | **Leaf colour** | **Leaf shape** | **Leaf base** | **Leaf apex** | **Leaf length (cm)** | **Leaf width (cm)** | **Leaf length: width** | **Petiole length (cm)** |
| **Tree 5** | Green | Elliptic Oblong | Acute | Acute | 12.50 ± 0.20 | 6.60 ± 0.20 | 1.90 ± 0.08 | 2.80 ± 0.23 |
| **Tree 13** | Dark green | Elliptic | Acute | Acuminate | 16.03 ± 0.32 | 5.83 ± 0.14 | 2.75 ± 0.11 | 2.26 ± 0.23 |
| **Tree 23** | Green | Elliptic | Acute | Acuminate | 14.16 ± 1.34 | 5.16 ± 0.48 | 2.82 ± 0.50 | 2.26 ± 0.14 |
| **Tree 29** | Dark green | Elliptic | Acute | Acuminate | 18.66 ± 0.41 | 6.73 ± 0.21 | 2.77 ± 0.03 | 2.40 ± 0.05 |
| **Tree 38** | Dark green | Elliptic | Acute | Acute | 18.36 ± 0.31 | 7.36 ± 0.23 | 2.50 ± 0.12 | 1.93 ± 0.06 |
| **Tree 39** | Dark green | Elliptic | Acute | Acute | 17.70 ± 0.26 | 5.56 ± 0.24 | 3.18 ± 0.10 | 1.53 ± 0.08 |
| **Tree 40** | Green | Lanceolate | Acute | Acuminate | 14.56 ± 0.41 | 5.30 ± 0.11 | 2.74 ± 0.01 | 1.96 ± 0.08 |
| **Tree 43** | Dark green | Broadly Ovate | Round | Acute | 12.60 ± 0.20 | 6.70 ± 0.20 | 1.88 ± 0.08 | 2.90 ± 0.23 |
| **Tree 44** | Dark green | Elliptic | Acute | Acute | 13.06 ± 0.18 | 6.46 ± 0.52 | 2.04 ± 0.13 | 2.40 ± 0.20 |
| **Tree 48** | Green | Lanceolate | Acute | Acute | 13.86 ± 0.28 | 6.00 ± 0.10 | 2.31 ± 0.04 | 1.83 ± 0.08 |
| **Tree 49** | Dark green | Elliptic | Acute | Acute | 13.56 ± 0.17 | 6.36 ± 0.14 | 2.13 ± 0.07 | 3.20 ± 0.11 |
| **Tree 52** | Green | Elliptic | Acute | Acute | 16.13 ± 0.46 | 6.43 ± 0.14 | 2.51 ± 0.05 | 3.43 ± 0.21 |
| **Tree 54** | Dark green | Elliptic | Round | Acute | 18.26 ± 0.38 | 5.93 ± 0.08 | 3.08 ± 0.07 | 1.86 ± 0.12 |
| **Tree 60** | Dark green | Elliptic | Acute | Acuminate | 15.36 ± 0.21 | 5.10 ± 0.11 | 3.01 ± 0.04 | 1.20 ± 0.05 |
| **Tree 63** | Dark green | Elliptic | Acute | Acute | 14.43 ± 0.17 | 5.63 ± 0.26 | 2.57 ± 0.13 | 1.73 ± 0.20 |
| **CD 0.05** | - | - | - | - | 1.23 | 0.75 | 0.45 | 0.46 |
| **C.V. %** | - | - | - | - | 4.82 | 7.34 | 10.56 | 12.23 |

**Table S4. Fruit morphological characteristics of superior selected seedling Jamun genotypes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession no.** | **Fruit weight****(g)** | **Fruit length (mm)** | **Fruit breadth****(mm)** | **Fruit shape** | **Fruit apex** | **Fruit colour** | **Fruit colour** |
| **Tree 5** | 6.42 ± 0.12 | 24.10 ± 0.17 | 20.34 ± 0.15 | Ellipsoid | Flat | Deep purple | Deep purple |
| **Tree 13** | 5.11 ± 0.15 | 24.10 ± 0.64 | 17.66 ± 0.61 | Oblong | Flat | Deep purple | Deep purple |
| **Tree 23** | 3.59 ± 0.14 | 23.29 ± 0.53 | 16.30 ± 0.08 | Ellipsoid | Round | Bluish black | Bluish black |
| **Tree 29** | 4.26 ± 0.32 | 23.37 ± 0.88 | 17.73 ± 0.01 | Oblong | Flat | Bluish black | Bluish black |
| **Tree 38** | 5.12 ± 0.48 | 27.22 ± 0.008 | 17.89 ± 0.29 | Ellipsoid | Round | Deep purple | Deep purple |
| **Tree 39** | 4.16 ± 0.29 | 24.36 ± 1.10 | 17.63 ± 0.48 | Ellipsoid | Round | Deep purple | Deep purple |
| **Tree 40** | 3.24 ± 0.24 | 22.66 ± 0.03 | 15.62 ± 0.14 | Ellipsoid | Flat | Bluish black | Bluish black |
| **Tree 43** | 6.42 ± 0.38 | 28.03 ± 0.48 | 19.73 ± 0.50 | Oval | Round | Deep purple | Deep purple |
| **Tree 44** | 4.32 ± 0.23 | 22.61 ± 0.12 | 19.15 ± 0.18 | Oblong | Flat | Bluish black | Bluish black |
| **Tree 48** | 4.20 ± 0.07 | 21.52 ± 0.18 | 17.34 ± 0.15 | Oblong | Round | Deep purple | Deep purple |
| **Tree 49** | 4.99 ± 0.23 | 22.62 ± 0.32 | 18.60 ± 0.06 | Oblong | Round | Bluish black | Bluish black |
| **Tree 52** | 3.78 ± 0.27 | 23.49 ± 0.36 | 16.37 ± 0.58 | Oblong | Round | Deep purple | Deep purple |
| **Tree 54** | 3.50 ± 0.29 | 19.90 ± 1.53 | 17.30 ± 0.28 | Ellipsoid | Round | Deep purple | Deep purple |
| **Tree 60** | 3.68 ± 0.09 | 20.47 ± 0.24 | 17.97 ± 0.10 | Round | Round | Deep purple | Deep purple |
| **Tree 63** | 3.94 ± 0.24 | 20.93 ± 0.29 | 16.41 ± 0.09 | Oblong | Round | Bluish black | Bluish black |
| **C.D. 0.05** | 0.64 | 1.82 | 0.95 | - | - | - | - |
| **C.V. %** | 8.63 | 4.66 | 3.20 | - | - | - | - |

**Table S5. Pulp and Seed characteristics of superior selected seedling Jamun genotypes**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession no.** | **Pulp colour** | **Pulp weight****(g)** | **Pulp %** | **Seed weight****(g)** | **Seed length****(mm)** | **Seed Size****(cm2)** | **Seed breadth****(mm)** | **Pulp: seed** |
| **Tree 5** | Whitish | 5.02 ± 0.08 | 78.20 ± 0.45 | 1.40 ± 0.04 | 17.64 ± 0.48 | 1.81 ± 0.10 | 10.27 ± 0.29 | 3.59 ± 0.09 |
| **Tree 13** | Whitish | 4.17 ± 0.09 | 81.66 ± 0.83 | 0.94 ± 0.06 | 12.33 ± 0.82 | 0.80 ± 0.06 | 6.48 ± 0.15 | 4.47 ± 0.24 |
| **Tree 23** | Whitish | 2.84 ± 0.12 | 79.04 ± 1.49 | 0.75 ± 0.06 | 16.04 ± 0.59 | 1.27 ± 0.04 | 7.97 ± 0.04 | 3.82 ± 0.36 |
| **Tree 29** | Pinkish | 3.80 ± 0.31 | 88.95 ± 0.82 | 0.46 ± 0.01 | 16.49 ± 0.32 | 1.21 ± 0.02 | 7.36 ± 0.13 | 8.15 ± 0.65 |
| **Tree 38** | Pinkish | 4.41 ± 0.49 | 85.82 ± 1.52 | 0.71 ± 0.04 | 12.91 ± 0.39 | 0.88 ± 0.03 | 6.88 ± 0.10 | 6.24 ± 0.86 |
| **Tree 39** | Whitish | 3.20 ± 0.27 | 76.65 ± 1.13 | 0.96 ± 0.03 | 13.73 ± 0.11 | 0.95 ±0.007 | 6.95 ± 0.07 | 3.30 ± 0.21 |
| **Tree 40** | Whitish | 2.64 ± 0.19 | 81.52± 0.66 | 0.60 ± 0.05 | 14.00 ± 0.54 | 0.94 ± 0.03 | 6.74 ± 0.007 | 4.42 ± 0.19 |
| **Tree 43** | Pinkish | 5.86 ± 0.35 | 91.29 ± 0.87 | 0.56 ± 0.07 | 18.23 ± 0.12 | 1.83 ± 0.01 | 10.03 ± 0.02 | 10.72 ±1.15 |
| **Tree 44** | Whitish | 3.20 ± 0.20 | 74.12 ± 2.42 | 1.12 ± 0.12 | 14.36 ± 0.34 | 1.25 ± 0.06 | 8.71 ± 0.24 | 2.92 ± 0.33 |
| **Tree 48** | Pinkish | 3.28 ± 0.07 | 77.98 ± 1.50 | 0.92 ± 0.07 | 15.41 ± 0.01 | 1.42 ± 0.01 | 9.25 ± 0.11 | 3.58 ± 0.31 |
| **Tree 49** | Whitish | 3.95 ± 0.24 | 79.07 ± 1.31 | 1.04 ± 0.04 | 16.35 ± 0.15 | 1.60 ± 0.01 | 9.82 ± 0.14 | 3.81 ± 0.30 |
| **Tree 52** | Pinkish | 3.07 ± 0.26 | 81.01 ± 1.06 | 0.71 ± 0.01 | 14.24 ± 0.13 | 1.09 ± 0.02 | 7.66 ± 0.11 | 4.29 ± 0.29 |
| **Tree 54** | Pinkish | 2.34 ± 0.24 | 66.51 ± 1.31 | 1.16 ± 0.05 | 16.30 ± 0.37 | 1.57 ± 0.05 | 9.66 ± 0.15 | 1.99 ± 0.12 |
| **Tree 60** | Purple pink | 3.04 ± 0.13 | 82.38 ± 1.39 | 0.64 ± 0.03 | 13.42 ± 0.07 | 1.07 ± 0.01 | 8.00 ± 0.06 | 4.75 ± 0.48 |
| **Tree 63** | Purple | 3.36 ± 0.21 | 85.13 ± 0.47 | 0.58 ± 0.04 | 13.02 ± 0.03 | 0.99 ± 0.01 | 7.61 ± 0.08 | 5.74 ± 0.21 |
| **C.D. 0.05** | - | 0.59 | 3.54 | 0.25 | 1.07 | 0.12 | 0.40 | 1.30 |
| **C.V. %** | - | 9.78 | 2.61 | 12.20 | 4.27 | 5.92 | 2.89 | 16.23 |

###### Table S6. Fruit biochemical characters of superior selected seedling jamun genotypes

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession no.** | **TSS (ºB)** | **Acidity (%)** | **TSS: Acidity** | **Total sugars (%)** | **Reducing sugars (%)** | **Non reducing** **sugars (%)** | **Sugar: acid** | **Ascorbic acid (mg/100g)** |
| **Tree 5** | 20.70 ± 1.09 | 0.58 ± 0.02 (1.25 ± 0.008) | 35.89 ± 3.26 | 15.49 ± 0.54 (4.06 ± 0.67) | 12.89 ± 0.34 (3.72 ± 0.04) | 2.46 ± 0.21 (1.86 ± 0.05) | 26.70 ± 0.53 | 30.82 ± 1.63 |
| **Tree 13** | 9.93 ± 0.40 | 0.51 ± 0.01 (1.23 ± 0.005) | 19.38 ± 1.16 | 10.07 ± 0.17 (3.32 ± 0.02) | 9.51 ± 0.10 (3.24 ± 0.01) | 0.52 ± 0.22 (1.22 ± 0.09) | 19.63 ± 0.70 | 34.45 ± 2.97 |
| **Tree 23** | 16.93 ± 0.21 | 0.39 ± 0.01(1.17 ± 0.004) | 43.37 ± 0.70 | 15.47 ± 0.32 (4.05 ± 0.04) | 14.33 ± 0.09 (3.91 ± 0.01) | 1.09 ± 0.32 (1.43 ± 0.10) | 39.64 ± 1.01 | 15.64 ± 0.68 |
| **Tree 29** | 15.70 ± 0.36 | 0.40 ± 0.02 (1.18 ± 0.009) | 39.17 ± 1.44 | 14.02 ± 0.13 (3.87 ± 0.01) | 13.28 ± 0.08 (3.77 ± 0.01) | 0.70 ± 0.06 (1.30 ± 0.02) | 35.07 ± 2.00 | 13.60 ± 0.39 |
| **Tree 38** | 14.10 ± 0.32 | 0.40 ± 0.02 (1.18 ± 0.009) | 35.21 ± 1.66 | 13.04 ± 0.11 (3.74 ± 0.01) | 12.39 ± 0.31 (3.66 ± 0.04) | 0.61 ± 0.19 (1.26 ± 0.07) | 32.62 ± 1.81 | 15.64 ± 0.39 |
| **Tree 39** | 15.96 ± 0.26 | 0.59 ± 0.01 (1.26 ± 0.004) | 27.01 ± 0.92 | 14.16 ± 0.27 (3.89 ± 0.03) | 13.05 ± 0.08 (3.74 ± 0.01) | 1.05 ± 0.22 (1.42 ± 0.07) | 23.93 ± 0.45 | 21.53 ± 0.39 |
| **Tree 40** | 14.23 ± 0.21 | 0.38 ± 0.01 (1.17 ± 0.004) | 37.58 ± 1.63 | 12.94 ± 0.22 (3.73 ± 0.03) | 11.81 ± 0.12 (3.57 ± 0.01) | 1.07 ± 0.24 (1.43 ± 0.08) | 34.12 ± 0.86 | 17.68 ± 0.45 |
| **Tree 43** | 11.40 ± 0.20 | 0.52 ± 0.01 (1.23 ± 0.005) | 21.74 ± 0.68 | 10.95 ± 0.21 (3.45 ± 0.03) | 10.41 ± 0.30 (3.37 ± 0.04) | 0.51 ± 0.28 (1.22 ± 0.11) | 20.89 ± 0.53 | 19.72 ± 0.39 |
| **Tree 44** | 13.13 ± 0.17 | 0.36 ± 0.01 (1.16 ± 0.004) | 36.83 ± 1.36 | 12.30 ± 0.10 (3.64 ± 0.01) | 11.26 ± 0.22 (3.50 ± 0.03) | 0.98 ± 0.26 (1.40 ± 0.97) | 34.47 ± 0.99 | 20.40 ± 0.68 |
| **Tree 48** | 17.23 ± 0.14 | 0.52 ± 0.01 (1.23 ± 0.004) | 32.88 ± 0.98 | 15.33 ± 0.42 (4.04 ± 0.05) | 14.78 ± 0.24 (3.97 ± 0.03) | 0.52 ± 0.18 (1.23 ± 0.07) | 29.27 ± 1.43 | 20.85 ± 0.98 |
| **Tree 49** | 22.26 ± 0.41 | 0.53 ± 0.02 (1.24 ± 0.008) | 41.68 ± 2.03 | 19.25 ± 0.42 (4.49 ± 0.04) | 18.40 ± 0.38 (4.40 ± 0.04) | 0.80 ± 0.06 (1.34 ± 0.02) | 35.97 ± 1.11 | 24.70 ± 0.98 |
| **Tree 52** | 19.46 ± 0.14 | 0.53 ± 0.02 (1.24 ± 0.008) | 36.42 ± 1.48 | 17.65 ± 0.20 (4.31 ± 0.02) | 16.04 ± 0.52 (4.12 ± 0.06) | 1.53 ± 0.36 (1.58 ± 0.02) | 32.99 ± 0.86 | 20.85 ± 0.81 |
| **Tree 54** | 12.80 ± 0.92 | 0.72 ± 0.01 (1.31 ± 0.005) | 17.68 ± 1.52 | 09.50 ± 0.15 (3.24 ±0.025) | 8.29 ± 0.19 (3.04 ± 0.03) | 1.16 ± 0.16 (1.46 ± 0.05) | 13.11 ± 0.42 | 13.60 ± 2.83 |
| **Tree 60** | 14.63 ± 0.17 | 0.56 ± 0.01 (1.24 ± 0.004) | 26.24 ± 0.80 | 13.52 ± 0.21 (3.81 ± 0.02) | 12.39 ± 0.25 (3.65 ± 0.03) | 1.07 ± 0.06 (1.44 ± 0.02) | 24.22 ± 0.25 | 19.26 ± 0.98 |
| **Tree 63** | 14.03 ± 0.08 | 0.47 ± 0.01 (1.21 ± 0.007) | 30.03 ± 1.30 | 13.39 ± 0.11 (3.79 ± 0.01) | 12.58 ± 0.18 (3.68 ± 0.02) | 0.76 ± 0.08 (1.32 ± 0.03) | 28.63 ± 0.96 | 33.32 ± 0.39 |
| **C.D.0.05** | 1.21 | 0.04 (0.01) | 4.50 | 0.81 (0.10) | 0.77 (0.10) | 0.655 (0.235) | 3.144 | 3.85 |
| **C.V. %** | 4.65 | 5.44 (0.91) | 8.35 | 3.48 (1.57) | 3.60(1.64) | 39.262 (10.006) | 6.504 | 10.67 |

**\* Figures in the parenthesis are square root transformed value**

**Table S7. Clustering pattern of fifteen selected superior jamun genotypes based on physicochemical characters**

|  |  |  |
| --- | --- | --- |
| **Cluster number** | **No. of genotypes** | **Tree number** |
| **Cluster I** | 2 | Tree 5, Tree 49 |
| **Cluster II** | 5 | Tree 13, Tree 39, Tree 40, Tree 60, Tree 63 |
| **Cluster III** | 6 | Tree 23, Tree 29, Tree 38, Tree 44, Tree 48, Tree 52 |
| **Cluster IV** | 1 | Tree 43 |
| **Cluster V** | 1 | Tree 54 |