**Table S1: List of the germplasm**

| **Sl. no.** | **Genotype** | **Type** | **Sl. No.** | **Genotype** | **Type** |
| --- | --- | --- | --- | --- | --- |
| 1 | Dudh Kalam | Indica | 76 | Shwarna | Indica |
| 2 | Kajol Shail | Indica | 77 | Gota IRRI | Indica |
| 3 | Moghai Balam | Indica | 78 | BR21 | Indica |
| 4 | Dakh Shail | Indica | 79 | Karenganmota | Indica |
| 5 | Chine kani | Indica | 80 | Mothamota | Indica |
| 6 | Chapshail | Indica | 81 | BR23 | Indica |
| 7 | Sakkurkhora | Indica | 82 | Kalomota | Indica |
| 8 | Mohini Shalot | Indica | 83 | BR22 | Indica |
| 9 | Binni | Indica | 84 | Kajalshail | Indica |
| 10 | Basmati-370 | Indica | 85 | Gera Mota | Indica |
| 11 | Morichshail | Indica | 86 | Moulata | Indica |
| 12 | Roti Shail | Indica | 87 | Laal chikon | Indica |
| 13 | SadaBinni | Indica | 88 | Argojamota | Indica |
| 14 | Jamainaru | Indica | 89 | Moulata | Indica |
| 15 | KutePatrnai | Indica | 90 | Bet chikon | Indica |
| 16 | Ghochi | Indica | 91 | Kamala Mota | Indica |
| 17 | Ledra Binni | Indica | 92 | Sabari Mota | Indica |
| 18 | Azucena | Japonica | 93 | Khalshi | Indica |
| 19 | Hori dhan | Indica | 94 | Dholichikon | Indica |
| 20 | Nona Bokhra | Indica | 95 | Monteshwar | Indica |
| 21 | MotaAman | Indica | 96 | Bashful chikon | Indica |
| 22 | KaloBinni | Indica | 97 | Dingamanik | Indica |
| 23 | Sada Mota | Indica | 98 | Bouari | Indica |
| 24 | Kalijira | Indica | 99 | Matichalmota | Indica |
| 25 | Mala | Indica | 100 | Dishari | Indica |
| 26 | Paijam | Indica | 101 | T1-10 | Indica |
| 27 | Biroin | Indica | 102 | T1-11 | Indica |
| 28 | Modhu Madhab | Indica | 103 | T1-14 | Indica |
| 29 | Moinamoti | Indica | 104 | T1-15 | Indica |
| 30 | Kalosail | Indica | 105 | T1-16 | Indica |
| 31 | Kali Boro | Indica | 106 | T1-18 | Indica |
| 32 | BRRI dhan49 | Indica | 107 | T1-19 | Indica |
| 33 | BRRI dhan28 | Indica | 108 | T1-20 | Indica |
| 34 | BRRI dhan57 | Indica | 109 | T1-21 | Indica |
| 35 | BRRI dhan55 | Indica | 110 | T1-22 | Indica |
| 36 | BRRI dhan29 | Indica | 111 | T1-24 | Indica |
| 37 | BRRI dhan52 | Indica | 112 | T1-25 | Indica |
| 38 | BU dhan-2 | Indica | 113 | T1-26 | Indica |
| 39 | IR58025 B | Indica | 114 | T1-27 | Indica |
| 40 | Kataribhog | Indica | 115 | T1-28 | Indica |
| 41 | BR5 | Indica | 116 | T1-31 | Indica |
| 42 | IR62829 B | Indica | 117 | T1-32 | Indica |
| 43 | Minikit long | Indica | 118 | T1-33 | Indica |
| 44 | Minikit short | Indica | 119 | T1-34 | Indica |
| 45 | Minikit Bogra | Indica | 120 | T1-37 | Indica |
| 46 | Dudh Kalam | Indica | 121 | T1-38 | Indica |
| 47 | BRRI dhan30 | Indica | 122 | T1-39 | Indica |
| 48 | Moynamoti | Indica | 123 | T1-40 | Indica |
| 49 | Hatipajor | Indica | 124 | T3-21 | Indica |
| 50 | Pajamdhan | Indica | 125 | T3-24 | Indica |
| 51 | Badshahbhog | Indica | 126 | T3-38 | Indica |
| 52 | BRRI dhan28 | Indica | 127 | T4-1 | Indica |
| 53 | BRRI dhan49 | Indica | 128 | T4-5 | Indica |
| 54 | Kunniburi | Indica | 129 | T4-8 | Indica |
| 55 | BRRI dhan52 | Indica | 130 | T4-9 | Indica |
| 56 | BRRI dhan49 | Indica | 131 | T4-10 | Indica |
| 57 | BR23 | Indica | 132 | T4-11 | Indica |
| 58 | Betibalam | Indica | 133 | T4-14 | Indica |
| 59 | Betichikon | Indica | 134 | T4-21 | Indica |
| 60 | Dudhkolom | Indica | 135 | T4-25 | Indica |
| 61 | BR22 | Indica | 136 | T4-26 | Indica |
| 62 | BRRI dhan52 | Indica | 137 | T4-31 | Indica |
| 63 | Ghiyagoj | Indica | 138 | T4-32 | Indica |
| 64 | Helbunia (Pannar Dapon) | Indica | 139 | T4-33 | Indica |
| 65 | Shakkhorkhora | Indica | 140 | T4-34 | Indica |
| 66 | Kacha Mota | Indica | 141 | T4-35 | Indica |
| 67 | BR23 | Indica | 142 | T4-38 | Indica |
| 68 | Shada Mota | Indica | 143 | T5-21 | Indica |
| 69 | Motha Mota | Indica | 144 | T5-24 | Indica |
| 70 | Shakkhorkhana | Indica | 145 | T5-26 | Indica |
| 71 | Laal Chikon | Indica | 146 | T5-29 | Indica |
| 72 | Kalijira | Indica | 147 | T5-32(1) | Indica |
| 73 | Dudhkalam | Indica | 148 | T5-32(2) | Indica |
| 74 | Kajalshail | Indica | 149 | T5-35 | Indica |
| 75 | Shada IRRI | Indica | 150 | T5-38 | Indica |

**T: Advanced lines**