**Table S1** List of genotypes used in the present study

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. no.** | **Genotype** | **Landrace/ Improved genotype** | **Sl. no.** | **Genotype** | **Landrace/ Improved genotype** | **Sl. no.** | **Genotype** | **Landrace/ Improved genotype** | **Sl. no.** | **Genotype** | **Landrace/ Improved genotype** |
| 1 | Meher\* | Improved | 18 | Sebati | Improved | 35 | Bhoi | Improved | 52 | Kharavela | Improved |
| 2 | Rajeswari | Improved | 19 | Vandana | Improved | 36 | Parijat | Improved | 53 | Shankar\* | Improved |
| 3 | Subhadra\* | Improved | 20 | Sneha\* | Improved | 37 | Kalinga-3 | Improved | 54 | Keshari | Improved |
| 4 | Asutosh | Improved | 21 | Rambha | Improved | 38 | Sidhanta\* | Improved | 55 | Anjali | Improved |
| 5 | Hiranmayi | Improved | 22 | Pooja | Improved | 39 | Indrabati | Improved | 56 | Gouri | Improved |
| 6 | Pratap | Improved | 23 | Mahanadi | Improved | 40 | Urbashi | Improved | 57 | Konark | Improved |
| 7 | Lalitgiri | Improved | 24 | Annapurna\* | Improved | 41 | Jagabandhu | Improved | 58 | Nilagiri\* | Improved |
| 8 | Mrunalini | Improved | 25 | Vanaprabha | Improved | 42 | Jajati\* | Improved | 59 | Mahalaxmi | Improved |
| 9 | Pradip | Improved | 26 | Jagannath\* | Improved | 43 | Kanchan | Improved | 60 | Heera | Improved |
| 10 | Pathara | Improved | 27 | Udayagiri | Improved | 44 | Tejaswini | Improved | 61 | Khandagiri | Improved |
| 11 | Pratibha | Improved | 28 | Samanta | Improved | 45 | Hasanta | Improved | 62 | Hema | Improved |
| 12 | Ranidhan | Improved | 29 | Birupa | Improved | 46 | Surendra | Improved | 63 | Manika | Improved |
| 13 | Suphala\* | Improved | 30 | Rudra | Improved | 47 | Badami | Improved | 64 | Annada | Improved |
| 14 | Sarathi\* | Improved | 31 | Ghanteswari\* | Improved | 48 | Prachi | Improved | 65 | Tanmayee\* | Improved |
| 15 | Manaswini | Improved | 32 | Bhuban | Improved | 49 | Gajapati | Improved | 66 | Kasalath\* | Landrace |
| 16 | Uphara | Improved | 33 | Sabitree | Improved | 50 | Pratikshya\* | Improved | 67 | IC459373\* | Landrace |
| 17 | Ramachandi | Improved | 34 | Daya\* | Improved | 51 | Bhanja | Improved | 68 | Dular\* | Landrace |

\* Selected 18 rice accessions used for hydroponic study