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| Title of Entry | : JGL 3855 and JGL 13595 – Two high yielding, short duration, cold tolerant, gall midge resistant rice cultures suitable as parents and cultivars, developed for Telangana state in India. |
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| Abstract | : JGL 3855 and JGL 13595 – Two high yielding, short duration, cold tolerant, gall midge resistant rice cultures suitable as parents and cultivars, developed for Telangana state in India. Cl .Damodar Raju, Ch. Surender Raju, L.Krishna, Y.Chandra Mohan and R Jagdeeswar. Rice Research Centre, Agriculture Research Institute Professor Jayashankar Telangana State Agriculture University Rajendranagar, Hyderabad-500030 Telangana State,India. ABSTRACT JGL 3855(Samba Mahsuri /ARC 5984 // Kavya) has good general combining ability, hence used as a parent along with MTU 1010, in newly released varieties i.e Telangana Sona (RNR 15048) ; fine grain,photo sensitive,low glycemic index variety and Pratyumna (JGL 17004) an extra early variety developed for Telangana State in India. JGL 13595 (MTU 4870 / JGL 418) also has good general combining ability, hence used as parent along with MTU 1010, in newly released long slender rice varieties, Kunaram Sannaalu (KNM 118) and Bathukamma (JGL 18047).These newly released varieties becoming popular among farmers and spreading to huge area in Telangana and other states of India. JGL 3855 and JGL 13595 are short duration cold tolerant, gall midge resistant, high yielding, fine grain rice genotypes developed as a substitute to Samba Mahsuri (BPT 5204) a popular cultivated variety in India. These cultures are developed by pedigree selection method of breeding by evaluating in station trials, multi location trials, Indian coordinated trials and minikit trials in farmer’s fields. Suitable for sowing from 1st to 31 st July and the seed to seed duration during kharif and rabi is 120- 125 days. An erect plant types attains a height of 95- 105 cm with medium tillering ability, medium slender grain type nearer to Samba Mahsuri (BPT 5204) with high yield , non lodging habit, gall midge resistant and with cold tolerance. The parents of JGL 3855,is Samba Mahsuri a long duration high yielding popular |

cultivar with medium slender grain, another parent ARC 5984 is a medium duration donor with photo sensitivity and cold tolerance. Kavya is a third parent used in three way cross is gall midge resistant variety. JGL 3855 is short duration fine grain photo sensitive gallmidge resistant and cold tolerant, variety

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