

Variety, Prankur (JRJ-610)

Prankur (JRJ 610), a high yielding fibre variety of sunnhemp has been developed by ICAR-Central Research Institute for Jute and Allied Fibres, Barrackpore, West Bengal. It has been notified by Central Varieties Sub-Committee on Crop Standards, Notification and Release of Varieties for Agriculture Crops vide notification on S.O. 1228 (E), Sr. No. 27, the Gazette of India dated May 07, 2015. The variety Prankur is derived by mass selection from synthetic population involving series of crosses using five selected parents namely, SUIN-01, SUIN-055, SUIN-056, K-12(Black) and K-12(Yellow) with high gca effects followed by random mating in isolation.

The variety was evaluated in All India Network Project on Jute and Allied fibres (AINP-J&AF) trials in IET, AVT-1, AVT-II and Adaptive trials during the years, 2010 to 2013 at multi-locations, viz., Barrackpore, Kalyani, Pratapgarh, Rahuri, Aduthurai and Budbud. The performance of this genotype was excellent with respect to yield and vascular wilt resistant. It out yielded the national checks K 12 yellow and SH-4. It gave an average fibre yield of 10.44q/ha under normal conditions with very good fibre quality. The average performance of Prankur in coordinated trials across the locations recorded was 7.42% and 5.87% higher fibre yield (10.16 q/ha) over the check varieties, SH 4 and K 12 yellow. The fibre tenacity of JRJ-610 (13.19 g/tex) is 17.87% and 10.56% higher than both the check varieties, K 12 yellow (11.19 g/tex) and SH 4 (11.93 g/tex).

The variety JRJ-610 is comparatively resistant (22.78%) to vascular wilt disease in comparison to cultivated varieties K 12 yellow and SH 4. Early sown crop is almost free from vascular wilt as well as sunnhemp mosaic disease and free from major insect pests like, top shoot borer and hairy caterpillar infestation. Being leguminous crop it may be grown on the nutrient deficient soils, acting simultaneously

as a very valuable soil builder. The variety JRJ-610 resembles closely with kenaf variety SUIN 053, and SH 4 with respect to features such as stem colour, leaf shape and seed coat colour. The variety JRJ-610 is suitable for irrigated as well as rainfed upland and medium upland situations for growing during mid-April to last week of May in areas where sunnhemp is cultivated. This variety is suitable for prevalent cropping sequence of sunnhemp followed by transplanted aman paddy in irrigated as well as rainfed agro-ecosystem (North India). Adapted to sunnhemp growing belt of India and is suitable for irrigated as well as rainfed mid and high land situation. The variety has been recommended for cultivation in the states of Uttar Pradesh, Bihar, Rajasthan, Maharashtra, Odisha, Madhya Pradesh and West Bengal. Plant height ranges 270 to 290 cm. The Stem of this variety is green, Cylindrical and ribbed, with 1.0-1.3 cm diameter. The leaves are green, oblong with 15 cm leaf length and 2.3 cm leaf width. The fruit of this variety is indehiscence and seed coat colour is deep brownish grey. The variety JRJ 610 matures in about 90 to 100 days for fibre purpose and 130 to 140 days for seed.

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