

**RESEARCH PAPER****Evaluation of chickpea varieties under frontline demonstration at farmer's field in Bhind district of M.P.**

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**Abstract :** The study was carried out to know the gap between improved packages of practices in gram crop. Frontline demonstration on gram varieties J.G.16, JAKI 92-18 and J.G. 130 were conducted at farmer's field in the adopted village of Krishi Vigyan Kendra, Lahar Bhind (M.P.) during the years 2010-11 to 2014-15. The average yield of J.G. 16 variety was 18.07 q/ha. J.G. 16 has given 20.4 q/ha. Highest yield during the year under frontline demonstration while local varieties gave 16.61 q/ha average yield during the year. The variety JAKI -9218 was demonstrated during 2011-12 and 2012-13 gave average yield at the farmers field 17.32 q/ha and 15.99 q/ ha, respectively. While variety conducted farmers practice gave average yield 13.62 q/ha and 13.52 during the years, respectively. The variety was given 18.50 q/ha. Highest yield under FLD, while farmers practice given highest yield 13.90 q/ha. The variety conducted under front line demonstrated was gave 27.16 per cent and 18.26 per cent higher yield over farmers practices during 2011-2012 and 2012-13, respectively. The average B.C. ratio of demonstrated technology was 1:180. J.G. 130 variety of gram tested at farmers field during 2012-13 and gave average yield 17.56 q/ha. While it was 13.1q/ha. in farmers practice. 34.04 per cent increased yield was recorded over farmer's practices. The variety JG 130 also demonstrated in farmers field under frontline demonstration during 2013-14 and 2014 -15 in 10.40 ha land on 26 farmers field, this variety during the years could not sown its performance due to rainfall and hailstorm during flowering to maturity. The average yield during the years (2013-14 and 2014 -15) was 6.13 and 2.53 q / while it had been seen in case of farmers practice 3.93 q/ha and 2.50 q/ha, respectively. Sixty four demonstration have been conducted during 2010-11 to 2014-15 in 25.80 ha of land. It could be said the yield performance of variety under improved package of practices not only in favour of increased yield but also economic condition of the farmers of the district

**Key Words :** Frontline demonstration, Gram, Varietal performance, Economic analysis, Farmers practices, Technology gap, Extension gap, Technology index

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