



**RESEARCH PAPER**

# Impact of front line demonstration of new groundnut (*Arachis hypogaea* L.) variety GKVK-5 in Kolar district, Karnataka

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**Abstract :** Groundnut is one of the major crops of Kolar district and its productivity is very low both in Kolar and Karnataka compared to other major groundnut producing states in the country. Thus with the intention of enhancing the yield of groundnut the present front line demonstration was carried out to evaluate the improved groundnut variety *i.e.* GKVK-5 at farmers field level with scientific package of practice. The FLD was conducted with 20 demonstrations with 20 individual farmers during 2017-18 at Nellahalli village, Malur Taluk of Kolar district. The results revealed that the introduction of new variety significantly increased the average yield from 11.88 (check) to 15.81 q/ha, while the net returns increased from Rs. 10379.63 to Rs. 30994.38 with new technology. The new variety GKVK-5 performed significantly better (1.51) in terms of cost - benefit ratio over the existing local variety (1.21). The per cent increase in yield over the farmers practice was about 33.08 per cent. Besides this the new variety showed promising in terms of number of pods per plant, pod weight per plant and lower incidence of tikka disease, thus, has a more fodder, which is very much important in dry areas. The demonstration showed the economic viability of the technology demonstrated.

**Key Words :** Front line demonstration (FLD), Groundnut, GKVK-5, Pod yield, Net returns, Cost benefit ratio (B:C ratio)

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