


## INNOVATIONS OF FARMERS IN GADAG DISTRICT

Compiled by ICAR-KVK, Gadag

Sl. No	Particulars	Remarks
1	<b>Title of Innovation</b>	Mechanised Intercultivation equipment cum Sprayer
2	<b>Thematic Area</b>	Farm tools
3	<b>Profile of Innovator</b>	<p><b>Name of the farmer:</b> Shri Basavaraj Tirlapur</p> <p><b>At Post</b> : Binkadakatti</p> <p><b>Taluk</b> : Gadag</p> <p><b>Mobile No.</b> : +91-9448822903</p> <p><b>Age</b> : 50</p> <p><b>Education Level</b> : PUC</p> <p><b>Size of land holding</b> : 80 Acres</p> 
4	<b>Problem/Challenge addressed</b>	Due to non-availability of labours in time, agricultural operations of weeding and spraying was the major problem. This has resulted in poor productivity of crops viz., Greengram, Bengalgram, Maize, Bt.Cotton.
5	<b>Description of innovative practice/technology</b>	<p>To address the problem, farmer has designed a tractor mounted intercultivation cum spraying equipment.</p> <p>The innovative tractor mounted equipment has two rear bullet two wheels and tow front simple wheels attached to the body as shown in the picture. The width between wheels is 4.5' and has a ground clearance of 3.5'. In the backside, intercultivation equipment/spraying assembly can be attached to the hydraulic system. The device is run by 7.5 HP motor. The device can be used for intercultivation and spraying in the crops like Greengram, Bengalgram, Maize, Chilli and Bt.Cotton. The intercultivation device has three adjustable blades to suit different spaced crops. The spraying device has 12 nozzles fitted on horizontal pipe at 2' distance. It is foldable. The equipment has water tank having capacity of 200 litres.</p>
6	<b>Practical utility</b>	<p>i) Timely intercultivation and spraying is possible</p> <p>ii) Intercultivation and spraying is very efficient and crop is not damaged during operations</p> <p>iii) It is multipurpose equipment. It can be also used for spraying in fruit crop orchards</p> <p>iv) More area can be covered for intercultivation and spraying</p>
7	<b>Source of information</b>	Based the problems faced in agriculture, Shri Basavaraj Tirlapur has conceived the idea of developing multipurpose device. With the help of Shri Nagalingappa Manappa Badiger (Mobile No.: +91-9448822881) of Shalavadi village in Navalgund taluk, the

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		intercultivation and spraying equipment is fabricated and developed.
8	<b>Economics/Profitability of innovation/technology (costs and return per unit/intervention/area/household)</b>	<p>Approximate cost of equipment is Rs.1.50 lakhs. A bullock pair can intercultivate 4 acres per day at a cost of Rs.1500/- whereas with the innovative device, intercultivation can be done in 10 acres in a day at cost of Rs.325/- incurred on diesel.</p> <p>Manual spraying can cover 3-4 acres per day per person. Whereas, this innovative device can cover 50 acres per day. This results in timely management of pest and disease leading to high productivity</p>
9	<b>Potential: Acceptance level, horizontal spread of innovation and number of farmer adopting</b>	At present, the innovation is being used by the innovator farmer himself and many farmers have seen the device and are convinced about the practical utility of the innovation
10	<b>Illustrate with high quality photos with caption, graphs</b>	



A view of Innovative Device



Spraying Device



Intercultivation Device