


**Thematic area- Horticulture**  
**Harnessing income through vegetable cultivation using waste land**

Particulars	Remarks
Profile of innovator	Name : Shri Krishanpal Singh Mourya Address : Post- Nimarkhedi, Tehsil- Punasa, District- Khandwa ( M.P.) Pin- 450551 Mobile No.: 9826621562 Education : M.Sc.(Ag) in plant breeding from IGAU, Raipur 
Problem/ challenge addressed	<ul style="list-style-type: none"> <li>• Wasteland with no productivity</li> <li>• Less efficiency of water &amp; fertilizer use.</li> <li>• No intercropping in Banana, thus, limited profit through banana crop</li> <li>• Less production in open field tomato</li> </ul>
Description of innovative practice/technology	<ul style="list-style-type: none"> <li>• Removal of stones &amp; rocks by digging the field.</li> <li>• Fertigation with drip irrigation system</li> <li>• Intercropping of cauliflower and broccoli ( 6 plants) with two plants of main crop banana ( 6 x 5 ft )</li> <li>• Cultivation of indeterminate tomato in open field maintaing four stems through cutting and pruning</li> <li>• Dual stacking arrangement in tomato</li> <li>• Coloured capsicum and parthenocarpic cucumber production in poly house and net house.</li> </ul>
Practical utility	<p><b>Following practical utility have been observed for enhancement</b></p> <ul style="list-style-type: none"> <li>• Assured irrigation with drip irrigation system,</li> <li>• Fertilizer application through drip system,</li> <li>• Pest and disease management with accurate identification, application of pesticides and other cultural practices</li> <li>• Follow crop rotation in field and rest in poly house</li> <li>• Marketing with group approach and use of communication technology</li> <li>• Most efficient use of each input through management practices</li> <li>• Fertigating Crops keeping in view the pH and EC of the soil.</li> <li>• Fertigating the Crops according to targeted yield.</li> </ul>
Source of information	ICAR and different website, Agricultural literature & KVK. Also using local meteorological data and accurate weather forecast systems like accu-weather, IMD, Eye in sky and Skymet weather forecast to prevent the crops from diseases and climatic calamities
Economics/Profitability of innovative practice/ technology (costs and return) (per intervention or area or household)	Sh.Krishapal Singh Mourya has taken tomato/cucurbits in 30 acre, banana in 11 acre and coloured capsicum and parthenocarpic cucumber in 2 acre protected cultivation. Sh.Mourya fetching gross income Rs.6.0 lakhs/acre from poly house by growing cucumber & coloured capsicum, Rs.1.5 lakh/acre from cucurbits, 3.0 lakhs/acre from tomato, 2.5 lakh/acre from banana and on an average his net annual income is Rs.1.0 lakh/acre.
Potential : Acceptance level, horizontal spread	Inspiring by Sh. Krishanpal Singh Mourya, more than 500 farmers of the region are using fertigation (irrigation + fertilizers) system in many crops

of innovation and number of farmer adopting	<p>like chilli , cotton , gram, sugarcane, vegetables and orchards.They have a group of 20 farmers who are doing hitech vegetable cultivation and selling there produts in different markets of India.</p> <p>There are different group of farmers led by Sh. Mourya who are exchanging their experience, strategies and problems through whatsApp. They also meet together monthly to discuss their problems and success with each other. They are interact through each other on different whatsapp groups like “Tomato Group “, “Chili Promoters Group” and “Pomegranate Groups”.</p>
Awards National level	<ul style="list-style-type: none"> <li>• Best farmers award by Hon’ble C.M. of Gujarat Sh. Narendra Modi during Vibrant Gujrat Global Summit in 2013</li> <li>• National Mahindra Samriddhi award “ Krishak Samrat Samman” during 2016</li> </ul>
Awards State level	<ul style="list-style-type: none"> <li>• State level Best farmers award by Govt. of M.P. through ATMA during 2013.</li> <li>• Best Farmer -District level ( 2011), Block level (2012-13) by district authorities</li> </ul>



**Visit of Hon’ble D.G., ICAR**



**Use of different shade Plastic mulching**



**Use of dual stacking in tomato crop**