


Thematic area – Organic farming

Vermicomposting for organic cultivation and Use of biogas for power production

| Particulars | Remarks |
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| Profile of innovator | <p>Name of Farmer : Shri Ghanshyam Kushwaha Address- Kushwaha Mohalla Bock- Narwar, District- Shivpuri (MP) Mobile number 9752370436, Age- 47 years Education level: 5th pass. Size of land holding (9 acres)</p>  |
| Problem/ challenge addressed | More expenses in power, either diesel or electricity increasing cost of cultivation. Lowering soil fertility and productivity due to low organic matter in soil. |
| Description of innovative practice/technology | Making use of biogas for running pump to lift water for irrigation. It reduces cost of cultivation timely irrigation of crops which helps in better productivity. Production of vermicompost in large scale and selling it supplying verms to other farmers which earns him extra income. |
| Practical utility | He is a model for other farmers for proper use of dairy byproduct (cow dung). Other farmers are benefitting from him by learning and for availability of vermicompost and verms. |
| Source of information | He received primary idea of vermicomposting from KVK Shivpuri by attending a training programme on organic farming in 2013. After that, he has been visiting many Central and State Institutes for more information. |
| Economics/Profitability of innovative practice/ technology (costs and return) (per intervention or area or household) | Reducing cost of cultivation by running biogas pump (6000/- per ha). Improving soil fertility by adding vermicompost (15-20% more production). Extra earning by selling vermicompost and verms (average 10000/- per month) |
| Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting | He is a source of inspiration in the district and other districts of many farmers have started vermicomposting due to him. |



Sh. Ghanshyam Kushwaha demonstrating his work to other farmers at KVK Shivpuri



Vermis multiplication by Sh. Ghanshyam Kushwaha



Vermicompost production by Sh. Ghanshyam Kushwaha