



## Consolation Award

### Channel Making Machine

Dinesh Chaudhary  
Durg, Chhattisgarh  
Scout: Direct

Dinesh Chaudhary (42) has a small workshop where he experiments and innovates farm machines. The neighbouring farmers often come to him to discuss their farming problems. He tries to develop or modify farm machines/tools upon the farmers' request to help them.

Working on a farmer's request, Dinesh started developing a machine for making channels for banana farming. It is a tractor (20-25 hp) operated channel-making machine, which digs and conveys the soil on one side with the help of rotating blades powered by the tractor PTO. The two side ploughs dig and guide the soil towards rotating blades during operation. Rotating blades remove soil and convey it to

the left side of the machine. At the machine's rear end, two wheels are provided to support the machine in maintaining the required depth. The operating mechanism of soil conveying to cover the root portion of the plants is the novelty of the machine.

Though developed initially for banana crops, this machine is now also being used in papaya cultivation. The machine's working width is 62 cm at an average work rate of 0.66 acre/h (depending on the type of work) and average fuel consumption of 2 lit/hr.

