

**Agricultural Engineering Department**  
**Formation of Ridges and Furrows using simple Ridger Plate**  
**attachment to Power Tiller**

Farmer Name: Thiru.P.Madhaiyan

Myself P.Madhaiyan (Mobile:9578108520), S/o.Palaniappan, having agricultural land at Kalliyam Kadu in Thottipalayam hamlet of Lakkapuram Village, Puduchattiram Block of Namakkal District and I am doing farming passionately for past 20 years.

Due to labour shortage and high labour cost involved for farming operation, I was struggling a lot. At that time, I came to know about the farm machines to carry out various farming operations. As a first step, I purchased a power tiller for performing various farming operations.

I grow cotton in my lands and sowing is undertaken on ridges and furrows for moisture conservation and weed management. For cotton crop, the land has to be tilled, then levelled and planked before preparing ridges upon which sowing is done. The cost involved for tilling, weeding and forming ridges are increasing day by day and I was thinking to use the power tiller effectively by combining the field operations - tilling, weeding and forming ridges in a single pass thereby increasing the versatility of the power tiller. So, I developed a ridger plate attachment to power tiller for doing tilling, weeding and ridge formation in a single pass and to save the labour cost. I use the tiller with ridger plate attachment in my lands and the area covered is 0.40 acre per hour. Further, I hire the power tiller with ridger plate attachment to the required farmers at a hire charge of Rs.750 per hour.

Meantime, the Agricultural Engineering Department took initiative to popularize the new innovative attachment and to create awareness among farmers by conducting demonstration of the attachment in presence of Chief Engineer (AE), Agricultural Engineering Department, District officials and progressive farmers. The benefit of the attachment was demonstrated to farmers. The farmers who participated in the demonstration were impressed on the performance of the ridger attachment and opined that this small improvement in the power tiller will result in huge benefit to them and will lead to considerable savings in time and money. The Chief Engineer (AE), Agricultural Engineering Department appreciated me for developing the ridger plate attachment.



**Fig: Power tiller with ridger plate attachment**



**Fig: The Ridger plate attachment to power tiller**





**Fig: Demonstration of Power tiller with ridger plate attachment**



**Fig: Demonstration of Power tiller with ridger plate attachment**