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Guided By

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**Project Title**

**DEVELOPMENT AND MODIFICATION OF SEED PLANTING MACHINE**

**Abstract:**

In manual broadcasting method there was not a right depth nor proper distance. Seeds that landed in the furrows had better protection from the elements, and natural erosion or manual raking would preferentially cover them while leaving some exposed. The result was a field planted roughly in rows, but having a large number of plants outside the furrow lanes.

The invention of the seed drill dramatically improved germination. The seed drill employed a series of runners spaced at the same distance as the ploughed furrows. These runners, or drills, opened the furrow to a uniform depth before the seed was dropped.

Behind the drills were a series of presses, metal discs which cut down the sides of the trench into which the seeds had been planted, covering them over.

This innovation permitted farmers to have precise control over the depth at which seeds were planted. This greater measure of control meant that fewer seeds germinated early or late, and that seeds were able to take optimum advantage of available soil moisture in a prepared seed bed. The result was that farmers were able to use less seed and at the same time experience larger yields than under the broadcast methods.

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