



RESEARCH PAPER

Performance evaluation of tractor operated check basin former

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Abstract : The current agricultural approach emphasizes maximizing water productivity by implementing *in-situ* moisture conservation methods. The tractor-operated check basin former is a mechanical device consisting of various components such as the mainframe, side bund former, lister former, trigger mechanism with power transmission, and hitch mast. Its primary function is to create basins of 6 x 2 meters in size. These basins simultaneously produce side bunds and cross bunds, effectively dividing the land into a number of sections for better moisture retention and distribution. The check basin former was assessed in the field for its ability to retain moisture effectively. The evaluation aimed at finding a solution that facilitates faster and more affordable basin construction, ensuring better moisture retention in the soil.

Key Words : Water conservation, Check basin former, Tie-ridging

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