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PROJECT REPORT

**“DESIGN AND FABRICATION OF LEVER OPERATED
PESTICIDE SPRAYER”**

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ABSTRACT

India is a land of agriculture which comprises of small, marginal, medium and rich farmers. Small scale farmers are very interested in manually lever operated knapsack sprayer because of its versatility, cost and design. But this sprayer has certain limitations like it cannot maintain required pressure; it leads to problem of back pain due to carrying of 10-20 liter tanks on back. It is labour intensive and time consuming.

A pesticide sprayer has to be portable and with an increased tank capacity as well as should result in cost reduction, labour and spraying time. In order to reduce these problems, there are a number of sprayers introduced in the market, but these devices do not meet the above problems or demands of the farmers. The conventional sprayer having the difficulties such as it needs lot of effort to push the lever up and down in order to create the pressure to spray.

In order to overcome these difficulties, the proposed equipment is a wheel driven and does not need any fuel to operate, which is easy to move and sprays the pesticide by moving the wheel. The mechanism involved in this sprayer is slider crank mechanism, which is driven by the wheel.