

- **Name of the project : Foot Operated Paper Plate Making Machine**

Prepared by,

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- **Working Principle :**A paper plate is a plate made out of paper and often lined with plastic to prevent liquid from leaking out or soaking through the paper. Paper plates are traditionally made by hand in Indian villages and our aim is to convert this laborious craft into a machine operation to make these paper plate in elegant shapes and sizes”. The base paper for paper plates is called kraft. This kraft is coated with the thin layer of silver film. This paper is then pass through successive stages of rolling, and then gets wounded on a roller. Then it is cut for required dimensions. After then this paper of required dimensions is pass to the press machine for giving required shape of plate. The operations from taking out the roller of coated paper, cutting it for required dimensions and then transferring it to the press machine are carried out manually.
- This project work deals with mechanically operated paper plate making machine instead of made by hand in traditional way of laborious craft. These have good dimensional stability and are inexpensive with less time consumption.
- There is described a foot-operated controller for providing discrete inputs to a machine to be controlled, comprising: a base; a foot-receiving member for receiving a foot of a user, the foot-receiving member movably secured to the base according to at least one degree of freedom and substantially extending within a plane; at least two switches each located at a different location between the base and the foot-receiving member and each activatable upon a corresponding motion of the foot-receiving member relative to the base; and a communication interface unit for connecting the foot-operated controller to the machine and transmitting to the machine a respective discrete command upon activation of the at least one switch, the discrete command corresponding to a discrete input for the machine.

Production Rate: 150/Machine/hour	Working Hours: 8 Hours	Daily Production:1200 Paper Plates
Working Days/Year: 330	Annual Production: 3,96,000	Say,4,00,000

- **Figure:**



- **Where it can be used / it's Application:**

Caterers (who are hired for catering food in wedding and parties) who serve snacks in paper plates and use paper cups and glasses
 Restaurants
 Hawkers which sell food items on the roadside
 Manufacturers of decorative items which need paper plates
 Domestic usage

- **Approximate Cost: Rs.6000/-**

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