



Mahatma Gandhi Missions College
of Engineering & Technology

FABRICATION OF HUMAN POWERED GRASS CUTTER

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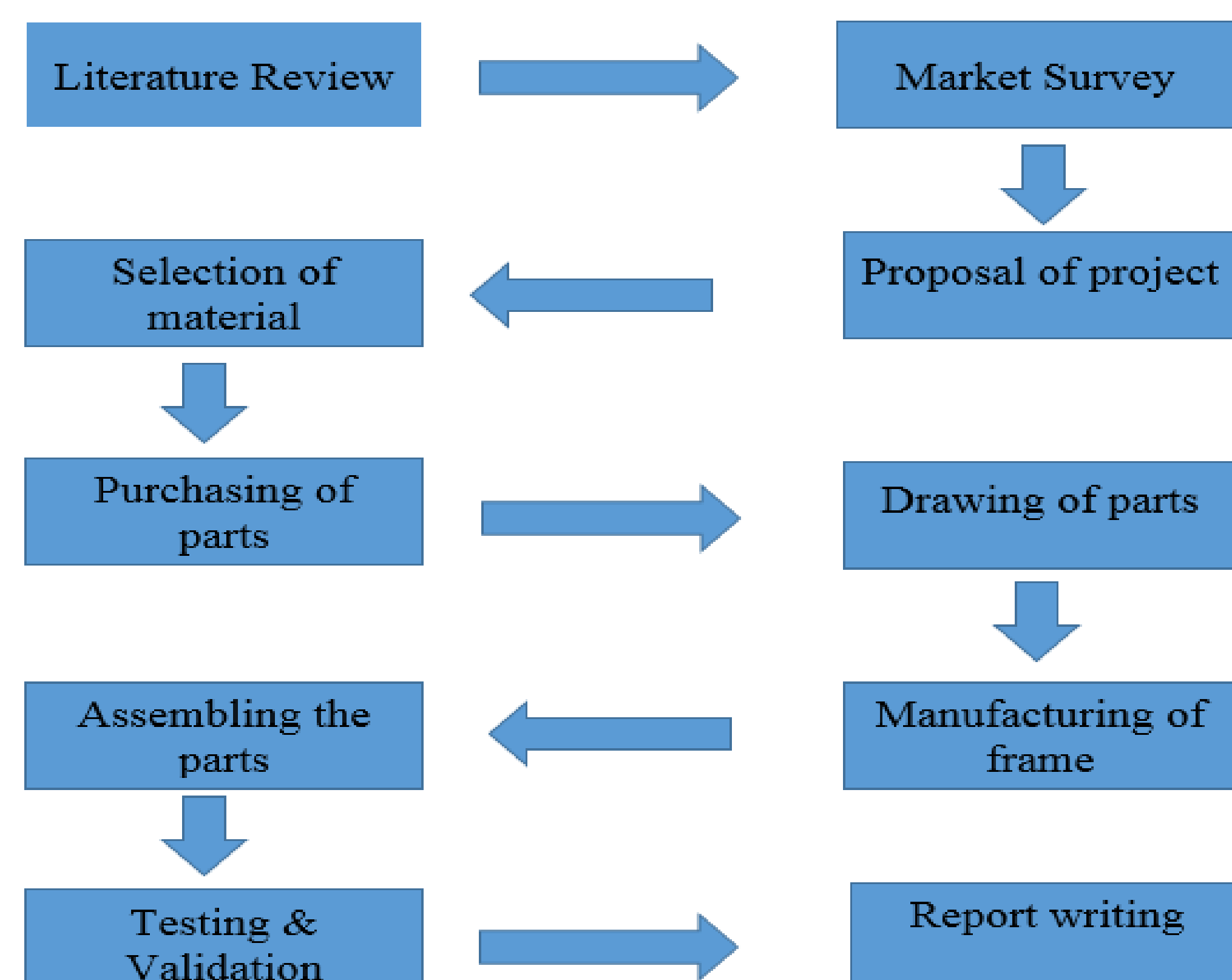
Introduction

- A lawn mower is a machine that is used to cut grass in a lawn.
- A grass cutter is a machine that uses revolving blades, to cut a garden land spaces, at an even length.
- Grass cutters employing a blade that rotates about horizontal axis are known as cylinder or reel cutters.
- Grass cutter is operated by help of bicycle which is powered by human instead of motors and fuels etc.

Project Objectives

- To fabricate a human powered grass cutter.
- To use of human power instead of fuel.
- To reduce the uses of fuel.
- To reduce pollution.
- To increase efficiency of lawn mower.
- To reduce unpleasant sound produce by grass cutting machine.

Methodology



Results and Discussion

- It is capable of cutting grass up to 10-12cm long at 30°.
- At medium cutting level and at last it must be at 12 mm cutting height at 12°.
- The speed of mower is 1.5769m/s.
- Cycle mechanism is working proper along with mower..

S.NO	Pedal operated grass cutter	Motor operated grass cutter
1	It cut the grass of min height 12mm.	It cut grass of min height 8 mm.
2	It cut the grass of max height 10-12cm.	It cut the grass of max height 30cm.
3	It is operated by pedal.	It is operated by 5 H.P motor.
4	Weight is 30kg approx.	Weight is more than 100kg.
5	Its maintenance cost is low.	Its maintenance cost is high.



IMAGES



Conclusions

- This does not have engine and is powered by a cycle.
- The machine is simply powered by the pushing force of a cycle.
- It is also affordable since the cost of production is low.
- This project helped us to improve our practical knowledge and also to express a new idea on the work shop.
- However by completing this project, we feel that our aim and objectives of the project is fulfilled.

References

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