

TAP WATER POWER GENERATION

ABSTRACT

Energy shortage is the prime consideration for the every country in the world. Especially in India there are still few places where there is no electricity. So it is necessary to save as well as churn out energy from miscellaneous resources.

Providing attention to the above fact we are trying to explore these resources where we are trying to churn out the potential of the waste water. We are concentrating on the water that comes from tap. We have taps in everyone's house, we are designing a device that can churn out the power from tap.

INTRODUCTION

There are so many models who produces the same electricity but the this model have a unique feature that is it can generate the electricity from flowing water which have very low head. Generally the high head is the basic requirement of any hydroelectric power generation but it is not a case here.

Our prime concept is to develop a device which can produce at least 8volt to 10 volts by taking very low amount of discharge. This device is designed in such a way that it can also produce the electricity from a simple low head discharge like tap water.

This device can be applicable for multi-storeyed buildings where waste water comes from very good height and we can generate the electricity storing it with the help of batteries and can fulfil the one of the electricity load like basement parking lighting, societies street lighting etc.

WORKING PRINCIPLE

It churns the power from a tap water . The tap water coming from the pipe is collected in a chamber. This device is introduced just before the end of the pipe in such a way that the water will strike the cups. These cup will rotate itself due to force applied by water and the this torque is converted into high rpm with the help of gearbox. This high rpm is then converted into the electricity with the help of DC generator.

APPLICATION

TAP WATER POWER GENERATION is used to utilise the potential of waste water and

1. Domestic power generator .
2. Tap water power generation
3. Commercial industries waste fluid power generation.

ADVANTAGES

- 1) It churns the power from a waste resource.
- 2) Small and portable set up.
- 3) No maintenance required.

DISADVANTAGES

- 1) Cant be used for heavy load.
- 2) Fluctuating power output.