

ABSTRACT:

The search for cost effective pump is a top research priority worldwide. Studies to develop models which can be run using renewable energy sources and which can be built out of available materials using ordinary skill have resulted in water wheel mounted spiral pumps. Many countries have succeeded in using these pumps.

Even though the invention of the pump dates back to the year 1746, its use in our country is yet to be seen. The present power crises in the country especially during summer demands the use of renewable energy sources on top priority.

The main drawback in the lapse of adopting this sustainable technology is lack of basic information and lack of technical back up.

The above problem is addressed in the present study by way of conceiving a demonstration model which explains the basic working principle of spiral pump and also by way of conceiving an experimental set up to study the performance of inclined spiral pump which enables and encourages to take up further studies to give total technical back up. With this, successful adoption of the most appropriate and cost effective technology in future years is expected to have very high hopes.