

## Lift Irrigation Pump

Most of the farming in India is monsoon dependent – if monsoons are good, the entire economy (and not just the agricultural sector) is upbeat and when the monsoon fails, everyone everywhere takes a hit to some extent. The problem here is of proper management of water or the lack of it.

Irrigation which consumes more than 80% of the total water use in the country needs a proper overhaul if the country has to improve agricultural output and boost the overall economy.

Current techniques used for irrigation -

1. Wind-based pump or solar based pumps - are **expensive**
2. Manually operated ones are not able to reach **much depth**

***You are required to design a low cost, low lift irrigation pump (manually operated or solar) to lift water from natural water streams or open wells for irrigation purpose, which has improved efficiency and can provide water sufficient for the irrigation of the plot of 0.5-1 acre.***

Some key words:

Low lift irrigation pump, treadle pump, IDE, Cycle Operated Pump

### Timeline

Idea Proposal (give a link to the <a href="#">Idea Proposal</a> section)	January 10 <sup>th</sup> , 2016
Mentorship Kicks off! (give a link to the <a href="#">Mentorship</a> section)	20 <sup>th</sup> January <b>OR</b> As soon as your idea is selected (whichever is earlier).
Submission of final report	7 <sup>th</sup> February, 2016
Presentation in Apogee, technical festival of BITS Pilani (give a link to the <a href="#">Presentation</a> section)	February 25 <sup>th</sup> – 28 <sup>th</sup> , 2016
Implementation Phase (give a link to the <a href="#">Implementation</a> section)	Based on the preferences of the organization (if providing an internship) and student