

# NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY

## Project Detail

### Pedal Powered Reverse Osmosis Water Purification Process

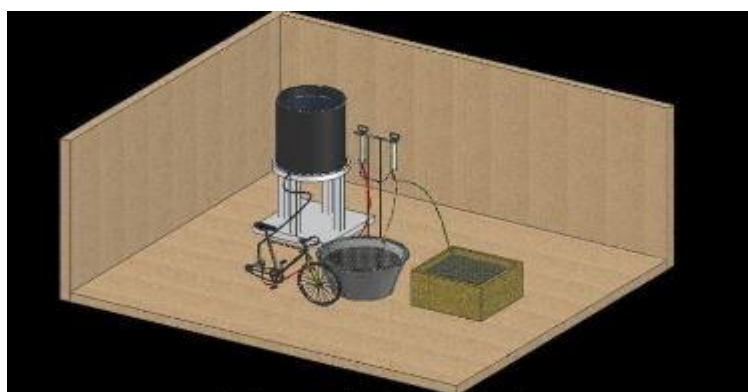
#### ❖ Student Detail:

Student Name	Enrollment No.	Contact No.
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<b>Name Of Project</b>	Pedal Powered Reverse Osmosis Water Purification Process.
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#### ❖ Working Principle:-

In the reverse osmosis process a cellophane-like membrane separates purified water from contaminated water. Osmosis occurs when two solutions containing different quantities of dissolved chemicals are separated by a semi permeable membrane. Osmotic pressure of the dissolved chemical causes pure water to pass through the membrane from the dilute to the more concentrated solution. There is a natural tendency for chemicals to reach equal concentrations on both sides of the membrane.



#### ❖ Applications:-

1. It can be used in industries as purification of Chemical Water.
2. Used in the area where electricity is not available or less available.
3. Used in In-house water purification system.

#### ❖ Cost:

Membrane (3 Nos.)	1200 INR.	Other material	1500 INR.
Old Bicycle	500 INR.	Fabrication cost	1150 INR.
<b>Total Cost : 4350 INR.</b>			

<b>Project Guide (Internal)</b>	Mr. Dhruv Patel	9898165317
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