



SPAN PUMPS

Innovate ♦ Design ♦ Implement

Joy Pump – See Saw Pump

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Joy pumps are an innovative concept of pumping water from bore-well, a sump or a rainwater harvesting tank. It uses playful energy of children or operators

collectively to pump water. See Saw pumps use force lift technology to draw water from a water source to an overhead tank above the ground level for storage and distribution. It doesn't require electric power. See Saw pumps work on the same technology and use the reciprocating motion to move the valves of a water cylinder. These pumps use a specially designed mechanism to convert the revolving motion to a reciprocating one. The technology below the ground is same as the hand pump technology, hence making it very easy to maintain at village level.

Technical Specifications:

| | |
|----------------------|---|
| Construction Details | Fabricated Mild steel |
| Wing span | 3 m |
| Play mechanism | Seesaw |
| Capacity | 8-16 children |
| Ideal speed | 40 strokes per minute |
| Out put | 1500-2000 Liters per hour |
| Space requirement | 6m x 1.5 m minimum |
| Operating depth | Up to 80 m depth |
| Cylinder | Direct action reciprocating cylinder Of any deep well hand pump |
| Deliver head | 8 m |
| Weight | 600 kgs. |
| Riser pipes | As per user requirement |

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Advantages:

1. Suitable for use on 100mm and above diameter bore well, sump or rainwater collector tank.
2. Can lift water up to 8m above ground for storage and distribution.
3. On line water purification devices can be used with either pumping or distribution system.
4. Easy to install and safe to use.
5. Low operation and maintenance cost.
6. Can be adopted with below ground assembly of any deep well hand pump.
7. Convenient for use in remote areas.

Applications:

The Joy pump can be used for water supply in

1. Schools, for drinking, sanitation and personal hygiene
 2. Institutions for drinking and sanitation
 3. Public garden, drinking, sanitation and watering plants
 4. Community centers for drinking and sanitation
 5. Small communities for drinking
 6. Relief camps for drinking.
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