

Superflow

DEEPWELL HANDPUMPS

CM/L-9044065-Part-2
CM/L-9921594-Part-3
CM/L-9548804-Part-4
CM/L-9562188-Part-5
CM/L-9719394-Part-6
CM/L-9686311-Part-7

IS:15500
Part- 2 to 7

IAS-ANZ
ICS
Reg. No.: R91/1319
I.S.O. 9001:2008 CO.

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★ Manufacture by ★

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SUPERFLOW DEEP WELL HAND PUMP STANDARD (INDIA MARK II)

Description:

The Deep Well Hand Pump Standard (INDIA Mark II) Pump is a conventional lever action Hand Pump and is subject to Indian Standard IS :15500-2004 (Part 1 to 8). This pump has a pump head, pump stand and a handle of galvanized steel. The down hole components exist of a brass lined cast iron cylinder with a foot valve and a plunger of brass. The plunger has a double nitrile rubber cup seal, the rising main is a Ø32 mm GI pipe and the pump rods are of galvanized steel with threaded connectors. This pump is not corrosion resistant and should not be used in areas with aggressive water (pH value < 6.5).

Technical data:

| | |
|---|---------|
| Cylinder diameter (mm): | 63.5 |
| Maximum Stroke (mm): | 125 |
| *)Approx. discharge at about 75 watt input m ³ /h: | |
| at 10 m head | 1.8 |
| at 15 m head | 1.3 |
| at 20 m head | 1.0 |
| at 25 m head | 0.9 |
| at 30 m head | 0.8 |
| Pumping lift (m): | 10 – 50 |
| Population served (nos.): | 300 |
| Households (nos.): | 30 |
| Water consumption (lpcd): | 15 – 20 |
| Type of well: borehole | |

Material:

| | |
|------------------|--------------------|
| Pump head | galvanised steel |
| Handl | galvanise steel |
| Pump stand | galvanised steel |
| Pump rods | galvanised steel |
| Riser pipes | galvanised GI pipe |
| Pump cylinder | cast iron / brass |
| Plunger/footvalv | brass |

Local Manufacturing:

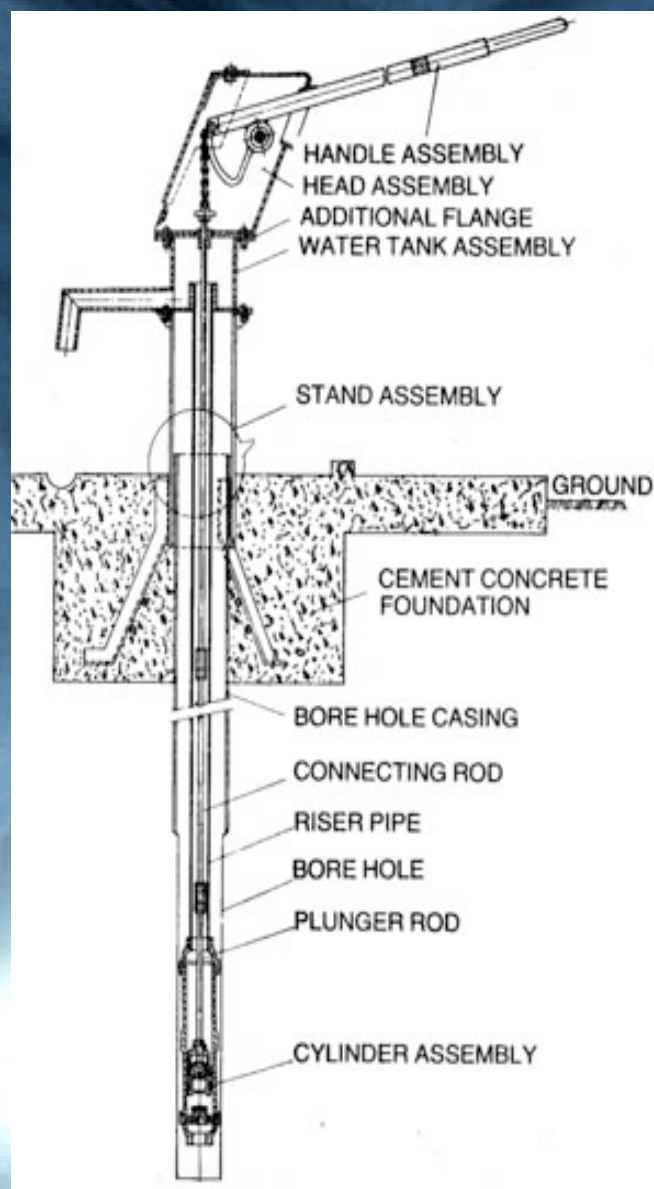
All “above ground components” have a potential for local manufacturing, the other parts need a high degree of quality control to ensure a reliable operation. The cost of the tooling requirement is substantial and therefore the number of manufacturer will be limited.

Installation:

The installation of the INDIA Mark II Pump need well trained area mechanics or a mobile team with lifting tackle and comprehensive tool

Maintenance:

This pump has limited “Community Management Potential”, but it is reliable and popular with the communities. To service the INDIA Mark II Pump skills and tools are needed which exceeds the ability of a village-level caretaker. However trained area mechanics can successfully maintain the pump.



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