

DEEP WELL HAND PUMPS

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Description :

The **DEEPWELL HAND PUMPS** is a conventional lever action handpump and is subject to Indian Standard IS 15500(Part1 to 8):2004. 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 ata

Cylinder diameter (mm): 63.5 Maximum Stroke (mm): 125*) Approx. discharge at about 75 watt input m³/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

Manufactured By :

ASHOKA INDUSTRIES

122/1 C, Sarojini Nagar, Kanpur-208012

Phone : 91 512 2296582, 2230024 Mob. 0941925680, 09415130457

Website : www.ashokasuperflow.com Email : superflow@satyam.net.in

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DEEP WELL HAND PUMP STANDARD (INDIA MARK II)

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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): 100
 *)Approx. discharge at about 75 watt input m3/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
Handle	galvanised steel
Pump stand	galvanised steel
Pump rods	galvanised steel
Riser pipes	galvanised GI pipe
Pump cylinder	cast iron / brass
Plunger/footvalve	brass

Local manufacturing

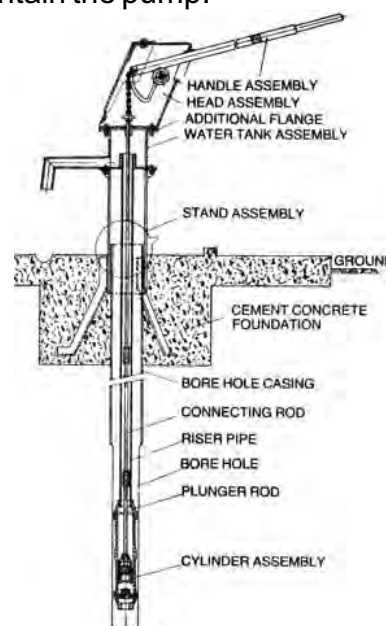
All “above ground components” have a potential for local manufacturing, the other parts need a high degree of quality control to ensure a reliable operation. The cost of the tooling requirement is substantial and therefore the number of manufacturer will be limited.

Installation

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

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.



INDIA MARK II HANDPUMP

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122/1 C, Sarojini Nagar, Kanpur-208012

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EXTRA DEEP WELL HANDPUMP

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Description

The Extra Deep Well Hand Pump is a conventional lever action handpump and is subject to Indian Standard IS :15500-2004 (Part 1 to 8). These pump has similar configurations as the INDIA Mark II, are exclusively used for extracting water from greater depths. These pumps are suitable for static water levels varying between 45 to 90metres where placement of cylinders can be between 50 to 85metres. The inner dia of the borewell, where these pumps are installed, should not be less than 100mm. only the "down hole components" were changed. The most important improvement is the "cylinder", which 63.5mm I.D./380 mm long cast iron cylinder body fitted with brass liner having C.I. (Cast iron) caps threaded to hold 32mm NB pipe. 3 Nos. Nitrile pump bucket and 500mm plunger rod. 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):	100
*) 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):	50-90
Population served (nos.):	300
Households (nos.):	30
Water consumption (lpcd):	15 – 20
Type of well:	borehole

Material

Pump head	galvanised steel
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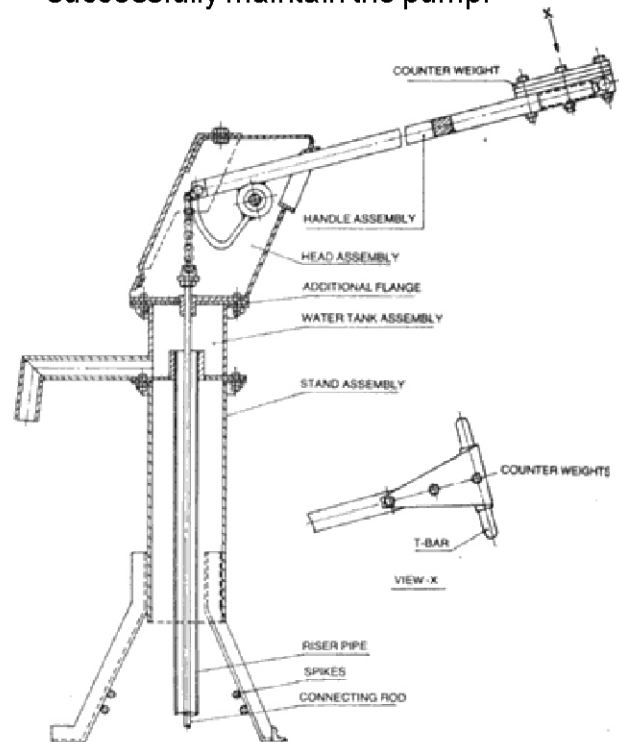
Handle	galvanised steel
Pump stand	galvanised steel
Pump rods	galvanised steel
Riser pipes	galvanised GI pipe
Pump cylinder	cast iron / brass
Plunger/footvalve	brass

Installation

The installation of the Extra Deep Well Hand Pump needs well-trained area mechanics or a mobile team with lifting tackle and comprehensive tool kit. Pump cylinder settings of more than 50 to 85m.

Maintenance

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



EXTRA DEEP WELL HAND PUMP

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