

We are an ISO 9001: 2015 certified company engaged in manufacturing and supplying of India Mark II, Mark III, Afridev & Threadal Pump Since 1990.

Leveraging on the vast experience of 28 years, we have emerged as a prominent organization engaged in manufacturing and supplying a wide gamut of Hand Pumps, Connecting Rods, Cylinders and Riser Pipes. These are manufactured using optimum quality of raw material, which we procure from vendors with high market reputation. We employ advanced machinery and equipment to manufacture the Hand Pumps in accordance with international quality standards and Bureau of Indian Standard. Our quality auditors test the quality of these products on various parameters to ensure their excellent quality. Owing to flexibility, durability, tensile strength, and resistance to corrosion.

The manufacturing unit is spread over 4000 Mtr. and equipped with Advanced CNC Plasma-Semi Robotic Welding technology. We have constructed a highly sophisticated and modernized infrastructure facility of our organization. To ensure smooth functioning and timely completion of tasks, this facility is divided by us into various units and provided with requisite facilities. Manufacturing unit is an integral part of our organization, which support us in meeting the bulk production of products in least possible time. Owing to our advanced and hi-tech machines, we have increased the production capacity of Hand Pumps & Connecting Rods. After being manufactured, these products are stringently tested by us to ensure superior quality and safely stored at our warehouse before the final dispatch.

In the year 2017 We are 1st ISI Mark Hand Pump Manufacturer in Gujarat. We had reached the Manufacturing capacity of 20000 India Mark Deep Well Hand Pumps with Connecting Rods & Cylinder per annum.

Salient Features

- Development of a sturdy and reliable community workshops at low cost.
- Fully fabricated steel structure (duly hot dip galvanized) makes the above ground portion of pump very sturdy and corrosion resistant.
- Capable of drawing water from 5 to 90 meters operating depths.
- Reducing pumping effort to minimise the burden on women.
- Easy installation and inexpensive maintenance at village level, with little training.
- Suitable for open well installation.
- Easy availability of spare parts.

Constructions

- (Above ground mechanism) consists of three sub assemblies : Conversion head, Water tank and Pedestal - all fabricated steel construction (duly hot dip galvanised).
- Available with different mounting arrangements like that flange type & three lags pedestal.
- Welding for mild steel & stainless steel component shall be done as per cl. 7.5 as IS-15500 PT:1 - 2004.
- Stainless Steel excel with drop forged M12 internal threaded coupler weld with hardness pinch chain.

Extra Deepwell Handpump

(as per Bureau of Indian Standard Specifications)

- For 45-90 meter's setting Depth as per Bureau of Indian Standard specifications.
- Heavier handle with T-bar and additional weights ensure reduced pumping effort.
- Cylinder assembly modified to have 3 pump buckets

Mark III Deepwell Handpump

- For 30-60 meter's Installation Depth.
- Best Suitable for 65 mm uPVC raiser pipe.
- The design of 50 mm India Mark III Handpump facilities quick replacement of the cylinder components such as valve and cup washer. in fact the replacement of the bobbin valve and the cup washer can be done with bare hands.
- Minimum tools required.



India Mark II, III & Extra Deepwell Handpump Specifications

PUMP TYPE	INDIA MARK II	INDIA MARK III	EXTRA DEEPWELL
Application Range : Static Water Level Optimum install depth	15 to 40 mts. 21 to 45 mts.	15 to 25 mts. 21 to 45 mts.	40 to 90 mts. 50 to 100 mts.
Min. Borewell dia.	100 mm	125 mm	100 mm
Riser main : Size Material	32 mm NB Galvanised / Stainless Steel, uPVC	65 mm NB Galvanised / Stainless Steel, uPVC	32 mm NB Galvanised / Stainless Steel, uPVC
Connecting rod : Size Material	12 mm & 10.8 mm S.S. / M.S. Elec. Gal.	12 mm & 10.8 mm S.S. / M.S. Elec. Gal.	12 mm & 10.8 mm S.S. / M.S. Elec. Gal.
Stroke Length Discharge / 40 strokes Suitability for VLOM	125 mm 15 ltrs (minimum) Yes	125 mm 15 ltrs (minimum) Yes	100 mm 12 ltrs (minimum) Yes
Operation & maintenance : Operational ease Maintenance ease	Easy 4-5 semi-skilled workers	Slightly heavy on Galv. Pipe but on uPVC riser it is easy 2-3 trained workers can handle.	Depend on the Depth 5-6 semi-skilled workers
Maintenance Tools	A set of special tools	A set of special tools	A set of special tools

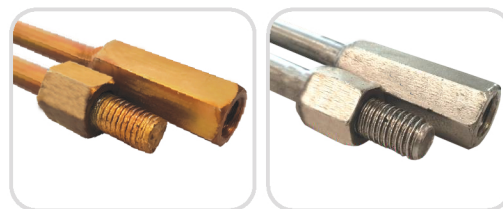
All Types Of Cylinders

- Cast Iron Body painted outside and lined from inside with seamless Brass liner of 63.5 mm I.D., Gun-metal valve components and nitrile rubber components.
- SS 304 Body with SS 316 valve components and nitrile rubber components.
- Discharge capacity is 15 Liters @ 40 strokes per min.
- India Mark III cylinder assembly modified to have open top cap to suit 65 mm N.B. G.I. / PVC riser pipe for maintaining nitrile rubber components.
- Dual Cylinder for Lifting water through Submersible Pumps & Hand Pumps.



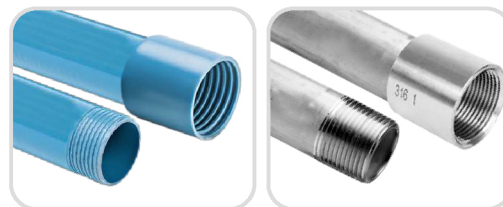
Connecting Rod - Varieties

- 12 mm dia x 3 Meters long mild steel electro galvanised with hexagonal coupling.
- Stainless Steel Rod of 12 mm dia, 3 Meters long of grade AISI 304 & 202 with hex coupling.



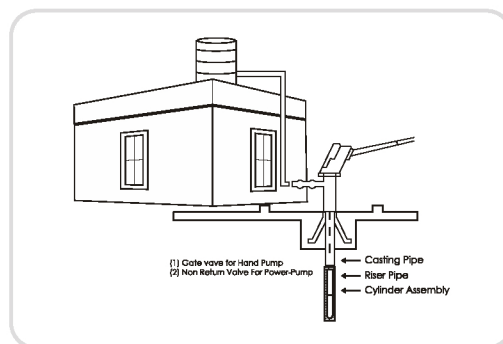
Riser Pipe - Varieties

- Riser Pipe (Drop pipe) 32 mm N.B. x 3 Meters long G.I. Medium with socket at one end.
- uPVC Riser Pipe with Injection Moulded heavy duty threaded coupler for India Mark-II & India Mark-III.
- Stainless Steel Riser Pipe AISI-304, with welded seamless threaded female socket on one side & welded seamless threaded male socket on other side for India Mark - II & India Mark - III.



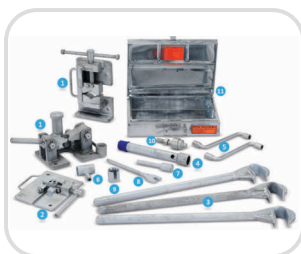
Force Lift Handpump

- Force Lift Hand pump designed by UNICEF is very much useful supply of water for cleaning purpose of the public toilets in urban / rural areas. The scheme envisages installation of force lift hand pump up to a maximum depth of 90 meters on the existing/already drilled bore holes. The water available through exists hand pump or new is stored in a storage tank, installed about 8 meters (20 ft) above ground - level.



Installation Tool Kit

- Special Tool Kit for Installation of India Mark Deepwell Hand pumps.
- Standard Tool Kit for Installation & Maintaining of India Mark Deepwell Hand Pumps.



Special Tool Kit



Standard Tool Kit

AFRIDEV
DEEP WELL HAND PUMP

- Min. bore size 100 mm
- Internal dia of Cylinder 50mm
- Stroke length 225mm
- Average discharge per stroke 0.44 Ltr.
- Operating depth (approx) upto 45 Mtr.

