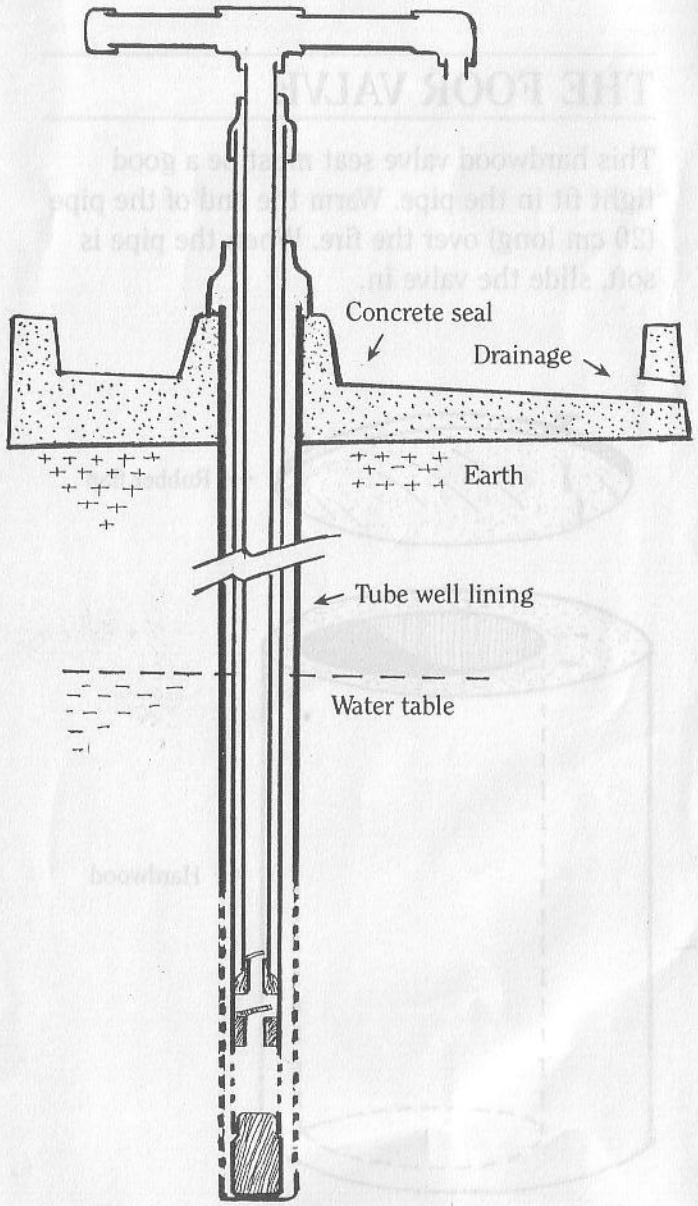
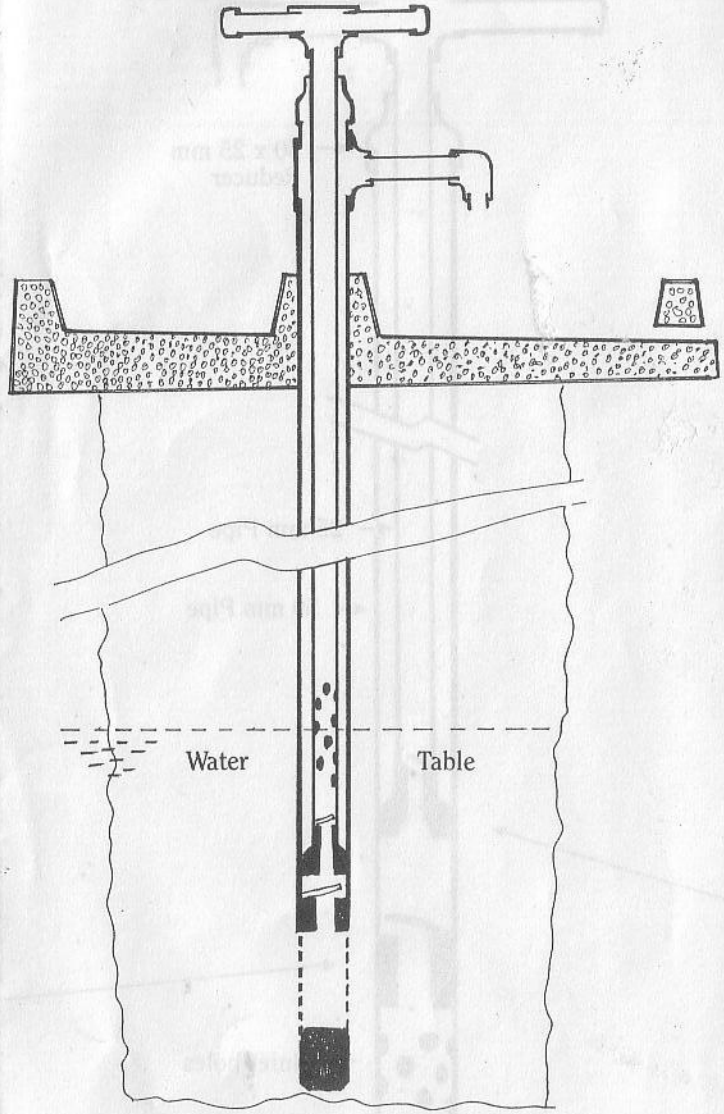
INSTALLATION IN A TUBE WELL

(Please refer to AT series No. 3, on "how to dig a tube well").



INSTALLATION IN A HAND DUG WELL

Please notice! The pump construction in this picture is slightly modified.



For more information please contact
World Vision in your Country.

How to build a RUS PUMP

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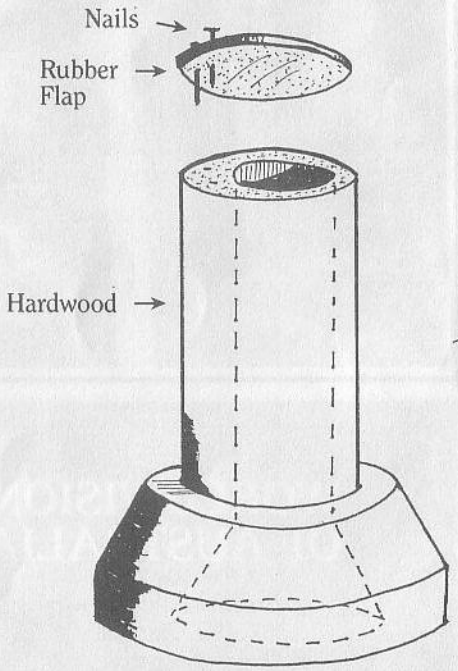
Appropriate Technologies Series No. 1

INTRODUCTION

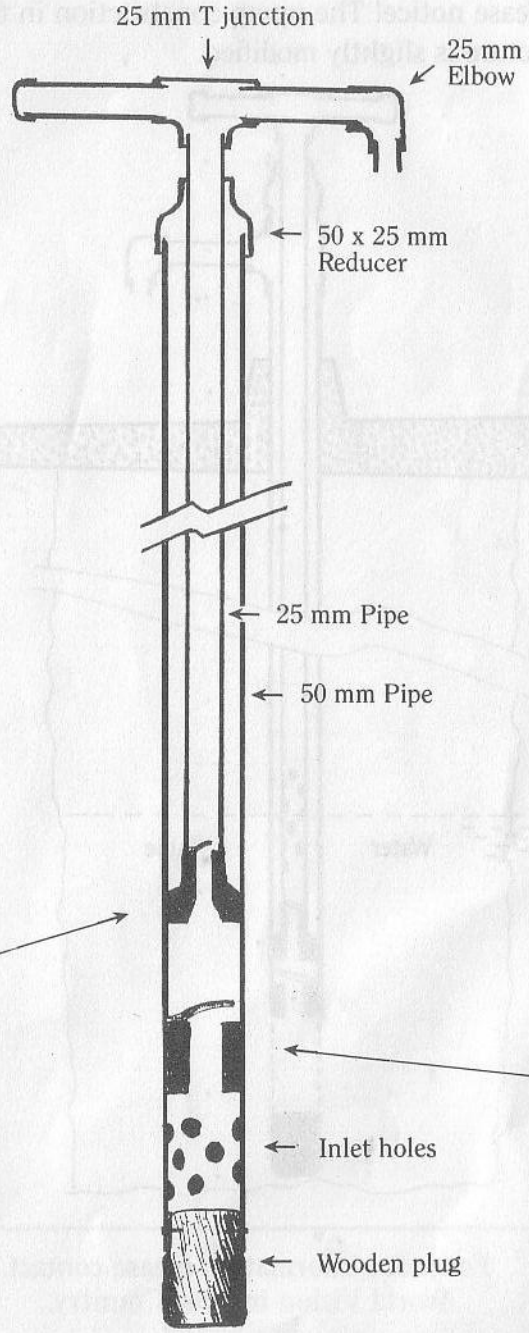
The Rus Pump has gained wide acceptance in South East Asia and the Pacific because it works well, is cheap and is easy to build. The main component needed to make the pump are PVC pipes, hard wood and scrap of car tyre. The valves must be hard wood so they will last. The rubber flap are made from old car tyre. The flaps are about 0.5 mm thick and attached to the valve seat with nails.

THE UPPER VALVE/PLUNGER

This Plunger must slide up and down freely when wet. Soak it overnight before fitting so it won't swell up and jam when used.



THE PUMP WHEN ASSEMBLED



HOW THE PUMP WORKS

On the upstroke, water is sucked into the space between the two valves. On the down stroke, this water is forced up the center pipe.

THE FOOR VALVE

This hardwood valve seat must be a good tight fit in the pipe. Warm the end of the pipe (20 cm long) over the fire. When the pipe is soft, slide the valve in.