

## A TOOL FOR DE-SILTING DRAINAGE CHANNELS

### WITHIN A LIYADDA

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#### Introduction:

The tool described here is easy to make and excellent for desilting "Kivul ela" in liyaddes. This tool can be constructed by any local blacksmith using locally available materials.

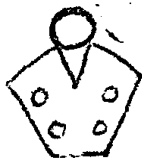
#### Materials required -

1. discarded mamoty blade - one
2. one inch long bolts ( and nuts) - four
3. Piece of sheet (from a discarded barrel) - one
4. Mamoty handle - one

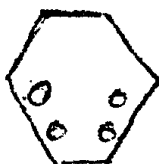
#### Method of Construction:



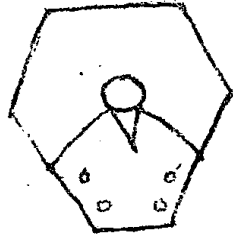
Mamoty blade as shown in diagram one.



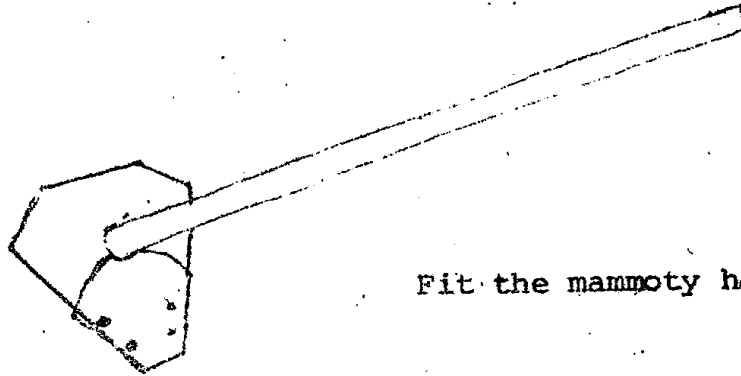
Make perforations on the mamoty blade as shown in diagram 2. The holes made should be just large enough to accomate the nuts to be fitted.



Cut the flattened sheet of barrel according to dimensions given in diagram 3. Then bore holes on the sheet identical to those made on the mamoty blade.



Fit the piece of barrel sheet to the mamoty blade firmly with bolts and nuts.



Fit the mamoty handle.

How to use:

Three (3) weeks after sowing or transplanting your rice crop drag the tool along the drainage channels (Kivul Kanu).

The channels get desilted very conveniently. If a lot of soil has been washed into the channel, you should apply more pressure while dragging to remove the accumulated soil from the channel.

Benefits achievable:

On a per acre basis a yield increase of 20-30 bushels can be expected if you have an adequate number of Kivul Kanu in the liyadda and desilt them using the tool described here.

The cost of construction of this tool will be less than Rs.50/- This is a worthy investment as the increased yield will exceed Rs.1500/- per acre.