

Pruthviraj™ Slurry Filter

Approved
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**For Application of
Cattle Slurry/Jeevamrut through
Drip Irrigation**

Applied for Patent

Winner of Nabard Award for Rural Innovation - 2012

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Cattle slurry/Jeevamrut is an integral part of Natural/Organic Farming. It is a source of macro nutrients (Nitrogen, Phosphorous & Potassium) secondary macro nutrients (Calcium, Magnesium, Sulfur) and micro nutrients (Iron, Boron, Manganese etc.) to the crops. It also supplies various bacteria which are essential for breaking down of mineral compounds in ready to use nutrients for the crops. Bacterial infusion helps better utilization of already present minerals in the soil. This increases the soil fertility. Thus, need for chemical fertilizers is kept to minimal saving on the cost. This way production cost is kept low in return assuring higher income.

Preparation of Cattle Slurry/Jeevamrut

Ingredients

1. Dung from indigenous Cow
2. Cow Urine
3. Gram Flour
4. Jaggery
5. Soil from the roots of a Banyan Tree

These ingredients should be mixed with water & be kept in shade for 3-5 days. This mixture should be stirred 2-3 times a day. After completion of the 5 days period this Slurry/Jeevamrut is ready. It should now be poured at the roots of each plant.



Traditional Method

Cattle Slurry/Jeevamrut Preparation

Multiple tanks/Containers

Manual application



Traditional Method of Cattle Slurry/Jeevamrut Application



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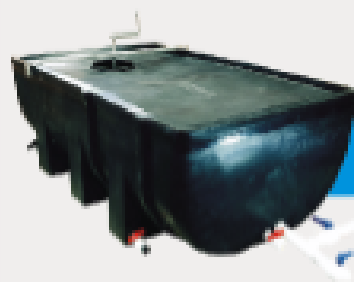
Hurdles in Cattle Slurry/Jeevamrut Application

Cattle Slurry/Jeevamrut when traditionally prepared was being administered manually. It is a very tedious, time consuming and expensive method. With the current labor availability crisis this is non-feasible. This practically has constrained the application frequency and quantity thus not being able to utilize the potential to the fullest.

To overcome this Cattle Slurry/Jeevamrut should be applied through existing Drip Irrigation systems. However, how do we inject Cattle Slurry through such narrow lines? It will definitely choke the pipes and the tiny pores of the drip nozzles. If we can get this Slurry filtered the above problem can be solved. 'Pruthviraj Slurry Filter' addresses this very problem 100%. The filtered liquid from 'Pruthviraj Slurry Filter' can be applied through Drip or any other micro irrigation system without having to worry about any choke-ups.

Improved Method

Cow Dung + Urine & other ingredients



Filtered Cattle Slurry/Jeevamrut



Jeevamrut/Cattle Slurry Reaches each plant through Drip Irrigation

Benefits of 'Pruthviraj Slurry Filter'

- * 100% Labor saving on the slurry application process Saves valuable time
- * Fertilizer management of the entire farm can be done from one place by one labor
- * Increases the quantity and frequency of Jeevamrut application
- * Significant savings on chemical fertilizers possible
- * Necessary for organic/natural farming
- * Useful for application of other manures and application of oil seed cakes
- * No Electricity is required



PruthvirajTM Slurry Filter

For application of Cattle Slurry/Jeevamrut through Drip Irrigation



1600 Litre



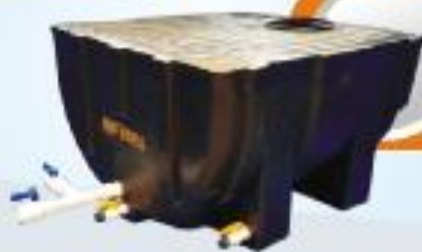
Capacity	Length	Width	Dung Quantity	Suitable for Area
1600 Litre	7 Feet	4 Feet	50 Kg.	9-16 acres

900 Litre

Capacity	Length	Width	Dung Quantity	Suitable for Area
900 Litre	6 Feet	3 Feet	20 Kg.	4-8 acres



500 Litre



Capacity	Length	Width	Dung Quantity	Suitable for Area
500 Litre	4 Feet	3.5 Feet	10 Kg.	1-3 acres



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