

Vasudha Green Farms,

(A Reliable Farm Consultants in India)

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Azolla Preparation:

Azolla is an aquatic floating fern, found in Paddy fields naturally. After pouring of Chemical Manures in the Paddy fields it was disappeared. The fern appears as a green mat over water. The Blue Green Algae cyan bacteria (*Anabaena azollae*) present as a symbiont with this fern in the lower cavities actually fixes atmospheric nitrogen i.e. it draws nitrogen from atmosphere and fixes in the Rice fields.

Now it has multiple Applications such as Cattle Feed / Poultry Feed / Fish Feed / Pig Feed / Paddy Manure etc. It can be called as “KALPATRUVU” for the Farmers.



Select a suitable Place at your back Yard or at your Farm Land, Dairy Farm, Poultry Farm, Pig Farm etc.



Get UV Treated Minimum of 150 GSM Silpaulin Sheet of 12' X 6' or 12' x 9' size is Ideal for backyard and above 12' X 9' is Ideal for Other Applications



Prepare the Bed with Fore Bricks as per the Required Seize.



Put the Gunny Bags /HDPE Bags on the Floor of the Pit for making a Cushion. Then Spread the Silpaulin Sheet on it. After that a fine sieved soil is spread over the bed uniformly, which will provide nutrient to the azolla plant at about 4Kgs / Sq. Mtr.

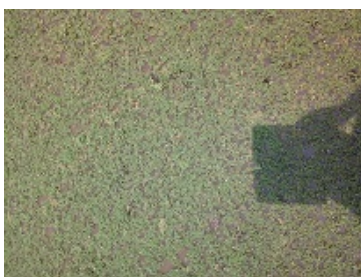


After that About 1 kg / Sq. Mtr of pre-decomposed (FRESH) (2 days) cow dung is mixed with the water, which provides carbon source for the azolla be poured in the Bed. About 10 gms. / Sq.Mtr of nutrient mix (available with us) mixed with Cow dung is added to the azolla bed.



Sufficient water is added to make the water level of the bed to 10 cm.

Precaution to be adopted.



Maintenance of pure culture free from contamination is essential for good yield. Azolla should be harvested regularly to avoid overcrowding. Temperature is an important factor for good growth. It should be around 35 degrees Celsius. The fodder plot is to be covered with a plastic sheet in cold regions so as to reduce the impact of cold weather. Places with direct and adequate sunlight should be preferred. A shady place yields less. pH of the medium should be between 5.5 to 7. Suitable nutrients such as cow dung slurry, micronutrients should be supplemented as and when required.

After 10 Days of its preparation one can Draw 500 Grms. per Sq. Mtr. Per day can be harvested i.e. on 12' X 9' pit can harvest 2 to 3 Kgs per day with minimum investment and wit very meagre expenditure.

Brief Procedure of Azola Cultivation :

Image



Details

Gather azolla, and bring it home in a plastic cover, then put it in a Tub with water in it. It will be Fresh for only 48 Hours. It should not be exposed to sunlight



Make a pit that is as required. Ideal size 12' X 6' for backyard and or 12' x 9' and above Size is Ideal above is Ideal for Other Applications The floor of the pit should be very even. Remove any roots stones etc.



Spread out the plastic sheet. Without any holes. The sheet must be spread out smooth. The sheet's outer edges should be fixed with mud so that they don't move. Making this mud wall around the pit also helps to keep things out of the pit. Any mud that has fallen in should be removed completely.



Now fill the pit with water.

The depth of the water should be the same as the height of a brick. The water level of 10 Cms. must be maintained daily – if it goes down add more water. Even small holes in the sheet will result in water leakage

Bring Azolla in water and add it to the pit.

In 10-12 days, the azolla will grow to fill the pit. Add 1.50 kg. of cow dung per Sq. Mtr. With Azolla Ferti of 10-20 Gms. It should be repeated every 10 Days.



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In 10-12 days, the azolla will grow to fill the pit.



The pit must be in the shade.
If the pit isn't under a tree, build a shelter for it. If the shelter is damaged, you must repair it. In the event of heavy rains the must be covered with a net to avoid spill over Azolla with rain water.



When the azolla has grown to fill the pit, remove some and wash it to get rid of the cow dung smell before feeding to the cow.
If the cow will not eat it, wash it again and give it to the Cow/Poultry/Fish/Pigs etc. Start with feeding the cow 75-100 grams of azolla daily in the morning, then increase up to 1 kg. daily. One can see an increase of Milk Production and Fat % by 20% - 25%



From time to time, add cow dung water (slurry). Every now and then $\frac{1}{2}$ to 1 kg of cow dung can be added. Do not dry the azolla at any time.

If you remove 1 Kg of azolla from the pit one day, the next day it will have grown back.
Azolla can also be used to fertilize to paddy field. Important thing is that Azolla absorbs pure nitrogen from the atmosphere.

Comparison of biomass and protein content of Azolla with other fodder

S.No.	Item	Annual production of biomass (MT/ha)	Dry matter content (MT/ha)	Protein content (%)
1	Hybrid Napier	250	50	4
2	Kolakattao grass	40	8	0.8
3	Lucerne	80	16	3.2
4	Cowpea	35	7	1.4
5	Subabool	80	16	3.2
6	Sorghum	40	3.2	0.6
7	Azolla	1,000	80	24

Azoferti with Micro Nutrients 1000 Grms

Direction: 100 g of Azoferti nutrient mix be add to 1-2 Kgs Cow dung well mixed with Water and be spread Uniformly in the Azolla Bed once in 10-12 Days.



Applications of Azolla





The aquatic plant is cheap and contains higher nutritious value, which helps in increasing milk yield

Don't hesitate to Contact us for any further details.

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