



# Indigenous Traditional Practices For Natural Farming



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## NATURAL FARMING FOR

AGROECOLOGY  
AND  
ENVIRONMENT



## NATURAL FARMING FOR

SUSTAINABILITY



## NATURAL FARMING FOR

CARBON  
SEQUESTRATION



## Preparation of Bijamrut for Seed Treatment

### Ingredients

- Cow dung - 5 Kg
- Cow urine - 5 Lit
- Cow milk - 1 Lit
- Lime - 250 gm
- Water - 100 lit

Mix all the ingredients and keep it overnight sprinkle this formulation on seeds to be sown, dry in shade before sowing



## Jivamrut for Soil Treatment

### Ingredients

- Cow dung - 10kg
- Cow urine - 10L
- Jaggery - 2kg
- Flour of gram (Tur, Moong, Cowpea, Urad) – 2kg
- Live soil (Healthy soil)- 1 kg
- Water - 200L

## Ghan Jivamrut for Soil Treatment

### Ingredients

- Cow dung - 100kg
- Cow urine - 5L
- Jaggery - 1kg
- Flour of gram (Tur, Moong, Cowpea, Urad) – 2kg
- Live soil (Healthy soil)- 1 kg

Promotes growth and flowering along with yield enhancer (@5-10% spray with water)

Soil fertility enhancer (applied along with irrigation water)



## Amritpani for Soil Treatment

### **Ingredients**

- Cow dung - 10kg
- Honey - 500g ( can be replaced by 500gm jaggery)
- Cow desi ghee - 250g or 250 ml mustard oil
- Water - 200L

Soil fertility enhancer (@ 200 ltrs per acre along with irrigation water)



## Sanjivak for Soil Treatment

### **Ingredients**

- Cow urine - 100L
- Cow dung - 100-200kg
- Jaggery - 500g
- Water - 300L

Keep for 10 days (Fermentation)

Diluted 20 times before use Along drip irrigation or Foliar spray

To enrich soil with microorganisms for quick residue decomposition.



## Panchgavya for Soil Treatment

### **Ingredients**

- Cow dung slurry 4 Kg
- Fresh cow dung 1 Kg
- Cow Urine 3 lit
- Cow milk 2 lit
- Curd 2 lit
- Cow butter oil 1 kg

Mix all the ingredients thoroughly and ferment for 7 days with twice stirring per day. Dilute 3 lit of Panchgavya in 100 lit water and spray over soil. 20 lit panchgavya is needed per acre for soil application along with

irrigation water. Panchgavya can also be used for seed treatment. Soak seeds for 20 min before sowing.

### Enriched Amrut Ghol

#### **Ingredients**

- Cow urine - 5L
- Cow dung - 1kg
- Decaying fruits (juice) - 1L

Mix and keep for 5 days

For 1 acre- 20-30L spray

Soil fertility enhancer (60-100 ltr per litre)

Growth and flowering enhancer (Spray)



### Fermented buttermilk for Plant Protection

- Ferment butter milk in an earthen pot for 15-21 days
- Dilute in a ratio of 1:20
- and use as foliar spray
- Fermented butter milk and Cow urine 1lit each diluted with 20 lit water is a strong pest repellent



### Neemstra for Plant Protection

Crush 5 kg neem leaves in water

- Add 5lit cow urine and 2 kg cow dung
- Ferment for 24 hrs with intermittent stirring
- Filter squeeze the extract and dilute to 100 lit
- Use as foliar spray over one acre

Useful against sucking pests and mealy bugs



### Agneyastra for Plant Protection

- Crush 1 kg Ipomea (besaram) leaves, 500 gm hot chilli, 500 gm garlic and 5 kg neem leaves in 10 lit cow urine.

- Boil the suspension 5 times till it becomes half & Filter squeeze the extract.
- Store in glass or plastic bottles
- 2-3 lit extract diluted to 100 lit is used for one acre.

Useful against leaf roller, stem/fruit/pod borer

### Brahmastra for Plant Protection

- ñ Crush 3 kg neem leaves in 10 L cow urine.
- ñ Crush 2 kg custard apple leaves, 2 kg papaya leaves, 2 kg pomegranate leaves and 2 kg guava leaves in water.
- ñ Mix the two and boil 5 times at same interval till it becomes half.
- ñ Keep for 24 hours, then filter squeeze the extract. This can be stored in bottles for 6 months.
- ñ Dilute 2-2.5 litre of this extract to litre to 100 litre for acre.

Useful against sucking pests, pod/fruit borers.



Neem Leaves



Custard apple leaf



Papaya leaf



Pomegranate leaf



Guava leaf

### Coconut- Buttermilk Ghol for Plant Protection

#### Ingredients

- Cow buttermilk (chaanch) – 5L
- Coconut water - 1L
- Fruit juice - 1L
- Turmeric - 100g
- Hing - 20g

1L of this solution diluted with 10L of water before spray.

Used as a tool for plant protection against fungal disease and insects



## Dashparni Extract for Plant Protection

### **Ingredients**

Crush following plant parts in a 500-lit drum

➤ Neem Leaves	-	5 Kg
➤ Vitex negundo leaves	-	2 Kg
➤ Aristolochia Leaves	-	2 Kg
➤ Papaya (Carica Papaya)	-	2 Kg
➤ Tinospora cordifolia leaves	-	2 Kg
➤ Annona squamosa (Custard apple) leaves-	-	2 Kg
➤ Pongamia pinnata (Karanja) leaves	-	2 Kg
➤ Ticinus communis (Castor) leaves	-	2 Kg
➤ Nerium indicum	-	2 Kg
➤ Calotropis procera leaves	-	2 Kg
➤ Green chilly paste	-	2 Kg
➤ Garlic paste	-	250 gm
➤ Cow dung	-	3 Kg
➤ Cow Urine	-	5 lit
➤ Water	-	200 lit

Crush all the ingredients and ferment for one month. Keep the drum in shade and covered with gunny bag. Shake regularly three times a day. Extract after crushing and filtering which can be stored up to 6 months and is sufficient for one acre.



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## NATURAL FARMING FOR

DOUBLING  
FARMERS'  
INCOME



## NATURAL FARMING FOR

WATER  
CONSERVATION



## NATURAL FARMING FOR

LIVESTOCK  
MANAGEMENT

