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Session- 2.2



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- **Selecting suitable seed variety**

5. Select pest and disease resistant varieties suiting to the given agro-climatic and soil situations
6. Ensure that seed or planting material is not genetically modified.
7. Identify vendors for authentic organic seed procurement, if not available on-farm.



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Seed treatment

8. Understand the organic practices for seed treatment

- In organic management, protection measurements are used only in the case of problematic situations. Use of disease free seed stock and resistant varieties is the best option.

Some of the treating formulations are as follows:



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1. Hot water treatment at 54⁰C for 20-30 min.
2. Cow Urine or Cow Urine-termite mound soil paste.
3. Beejamrut.
4. Asafoetida 250g in one litre of water for 10 kg seed.
5. Turmeric rhizome powder mixed with cow urine.
6. Panchagavya extract.
7. Dashparni extract.
8. *Trichoderma viridae* (4g/kg seed) or *Pseudomonas fluorescens* (10g/kg seed).
9. Biofertilizers (Rhizobium/Azotobacter+PSB)



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Identify various bio-inputs that could be used for seed treatment

10. Chalk out seed/ planting material treatment plan with:
 - a. bio inputs such as biofertilizers, bio-pesticides.
 - b. on-farm made seed protecting aids such as Bijamrutham.
 - c. off-farm botanical or organically acceptable chemical alternatives



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11. Identify vendors of authentic organic seed treatment inputs
12. Implement seed treatment process appropriately.
13. Understand acceptable chemical alternatives, their procurement and use .