

CABINET REPORT

Action taken report of ICAR

on

GOBARdhan



Secretary level review meeting on 05-07-2024

**Indian Council of Agriculture Research
Department of Agriculture Research and Education
MoAFW, GOI, New Delhi**

Cabinet report of ICAR on GOBARdhan

Target:

ICAR to submit the interim package of practices report by end of July 2023

Package of practices for important crops (FOM – Fermented organic manure; LFOM – Liquid fermented organic manure):

1. Rice

- In transplanted puddled rice crop, application of FOM (Bio-slurry enriched and stabilized to 2.1% N) @ 2.5 t/ha during nursery preparation and @1.25 t/ha after transplanting is recommended along with the recommended dose of fertiliser (RDF) (120 kg N/ha, 60 kg P₂O₅/ha, 60 kg K₂O/ha).
- In direct seeded rice, the liquid FOM is recommended @ 1.25 t/ha along with the RDF.
- LFOM should be used @ 500 Litre per ha for 2 to 3 times

2. Wheat

- In wheat, soil application of FOM (dried bio-slurry) @ 6-8 t/ha, 10 days before sowing is recommended along with recommended dose of fertiliser (120 kg N/ha, 60 kg P₂O₅/ha, 60 kg K₂O/ha) for sustainable productivity.
- FOM should be applied before last plough and ploughed into the soil

3. Maize

- Application of FOM @ 4 to 6 t/ha is recommended along with 80% of recommended dose of fertiliser (150 kg N/ha, 60 kg P₂O₅/ha, 30 kg K₂O/ha) for optimum productivity.

4. Pea (*Pisum Sativum* L.)

For optimum green pod yield of pea, application of FOM (with 2.8% N) and urea in 1:3 ratio is recommended. This practice resulted in improved microbial activity in the soil.

5. Okra

For optimum productivity of okra crop, FOM application @ 5 t/ha is recommended along with recommended dose of fertiliser (100 kg N/ha, 60 kg P₂O₅/ha, 40 kg K₂O/ha).

6. Spinach

Application of 25% of recommended nitrogen through FOM and 75% recommended nitrogen through fertiliser produced optimum yield of spinach. The FOM needs to be mixed in soil at least 15-20 days before sowing. Side or top dressing or fresh FOM application need to be avoided.

7. Baby corn

Application of FOM @ 3 t/ha along with full recommended dose of fertilizer ((150 kg N/ha, 60 kg P₂O₅/ha, 20 kg K₂O/ha) is recommended for optimum production of baby corn. Spray of 0.3% iron is recommended along with the above practice. After application of FOM, field need to be ploughed and ridges and furrows to be formed at a spacing of 45 cm x 25 cm.

8. Sugarcane

Apply FOM @ 5-6 t/ha with C:N ratio less than 20 before last ploughing and apply FOM @ 5 t/ha after 90 days of planting and do earthing up. Along with, apply RDF (200 kg/N, 60 kg P₂O₅/ha and 100 kg K₂O/ha) for optimum yield.

9. Mustard

Apply FOM @ 2 – 2.5 t/ha with C:N ratio less than 20 and S enriched 1.5 % at the time of last ploughing before sowing. Apply RDF (80 kg/N, 40 kg P₂O₅/ha and 40 kg K₂O/ha) as per the recommendation.

10. Vegetable cow pea

Apply FOM @ 2.0 – 3.0 t/ha with C:N ratio less than 20 and P enriched with 0.8 – 1.0 % at the time of last ploughing before sowing. Apply RDF (15 kg/N, 25 kg P₂O₅/ha and 20 kg K₂O/ha) as per the recommendation.

Important Note:

- Don't apply FOM / LFOM as foliar spray. Use this along with recommended dose of fertilizers for each crop.
- FOM should be applied 7-10 days before sowing in all the crops.
- pH of FOM should be in between 6.5 to 7.5.