

What do u mean by nano DAP? Compare & contrast convent.
DAP with nano-DAP. Enumerate nano dap's benefits

Phosphorus is an important macro
nutrient for plant growth and photosynthesis.

The government's plans to increase the uptake
of nano-diammonium phosphate in all agro
districts. Cons as envisioned in the budget

Nano-DAP It is manufactured by the
Indian Farmers' Fertilizers co-operatives
(IFFCO). It is the DAP available in the
liquid form. The particle size is in
the order of less than 100 nanometers

This ensures the high surface to
volume ratio and harnesses numerous
benefits compared to conventional
granular DAP.

Conventional vs Nano DAP

- ① Price : Nano DAP bottle of 500ml which can cover upto one acre cost ₹ 600, whereas to cover same area granular DAP needs 50 kg costing ₹ 1350.
- ② Logistics - Nano DAP can be easily carried and transported compared to conventional ~~use~~ di ammonium phosphate
- ③ Reduce imports India imported 7.65 lakh tonnes of di ammonium phosphate in 2022-23. Nano DAP can reduce import bill.
- ④ Environment benefits : ~~Reduce~~ Reduce application of fertilizer can reduce run off and eutrophication creating anoxic conditions.
- ⑤ Improve NPK ratio : Current ratio is 7-7 : 3-1 : 1 this can be brought down to 4 : 2 : 1

Benefits of Nano-DAP

The Nano DAP can be applied at the roots, and the phosphorus stimulates the seed growth and root development.

Better assimilation of fertilizer can result in high seed vigour, better chlorophyll eventually improving yield. The nutrient use efficiency of the Nano dap is more than 90%.

It is compliant with OECD's testing guidelines and Department of Biotechnology's testing of Nano agri inputs guidelines.

Future

The Nano-Di-Ammonium Phosphate can be subsidised for initial period or time in order to popularise it. The benefits of Nano-DAP are tangible and can bring Atma Nirbharata through Atma Nirbhar Krishi.