

नैनो यूरिया लिक्विड (Nano Urea Liquid)

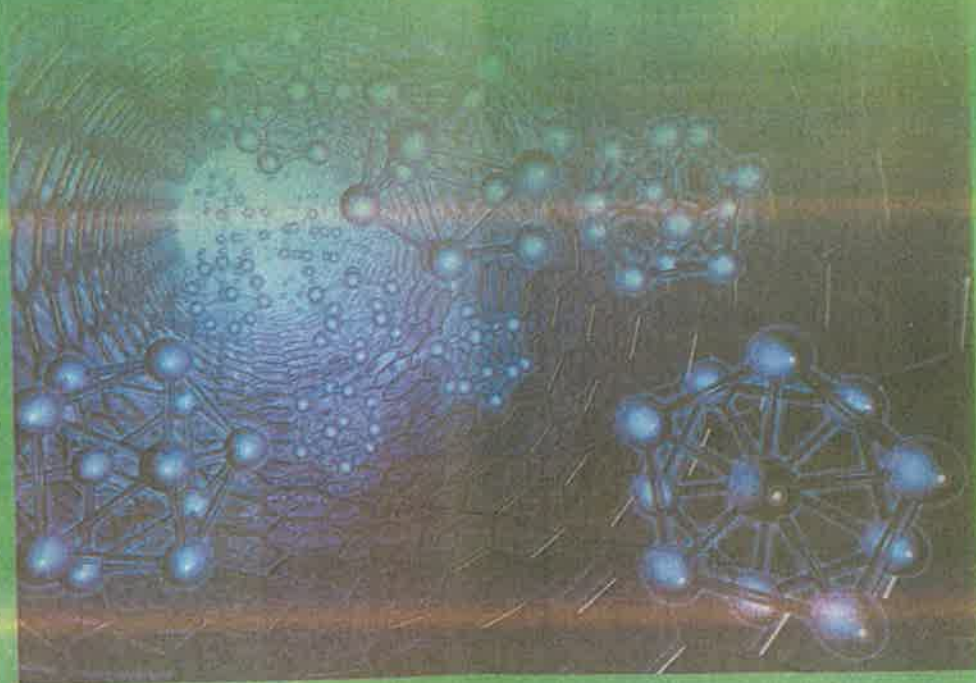


- किसानों के लिये भारतीय किसान उर्वरक सहकारी लिमिटेड (IFFCO) ने विश्व का पहला नैनो यूरिया लिक्विड उर्वरक तैयार किया है।
- यह यूरिया के परंपरागत विकल्प के रूप में पौधों को नाइट्रोजन प्रदान करने वाला एक पोषक तत्व (तरल) है।
- नैनो यूरिया को पारंपरिक यूरिया के स्थान पर विकसित किया गया है और यह पारंपरिक यूरिया की आवश्यकता को न्यूनतम 50 प्रतिशत तक कम कर सकता है।
- परंपरागत यूरिया पौधों को नाइट्रोजन पहुँचाने में 30-40% प्रभावी है, जबकि नैनो यूरिया लिक्विड की प्रभावशीलता 80% से अधिक है।

Part C

Nanotechnology & Renewable Energy

(Carbon Nanotubes, Nanodispersants and Nanodispersions,
Nanowires, Nanofilms and Nanopowders)



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We produce the following types of Activated Carbon –



POWDERED ACTIVATED CARBON

Powdered varieties of Activated Carbon are used in liquid phase application primarily for removal of undesired colour, smell and other impurities in many types of industries including basic drugs, fine chemicals, glucose, sugar, electroplating plasticizers and so on. Quite often, powdered carbon is washed with acid and then, repeatedly with water & dried to minimize impurities like soluble ash-iron, heavy metals etc. Activated Carbon is invariably used in a batch process at the penultimate stage of manufacture of a product. A pre-determined quantity of activated carbon is added to a solution and after stirring for a certain contact time mostly at elevated temperature carbon is filtered out or settled to get a sparkling colour free solutions from which product is recovered. it is pertinent to mention that use of powdered activated carbon apart from decolourising imparts several other benefits like longer shelf life, truer, and bolder crystals, closer melting and boiling points etc.

Specifications for wood based powder Activated Carbon – Unwashed

| Properties | Grade | | | |
|----------------------------------|-------|-------|-------|-------|
| | SC-15 | SC-20 | SC-25 | SC-30 |
| ASTM | SC-15 | SC-20 | SC-25 | SC-30 |
| Methylene Blue Value min (mg/gm) | 150 | 200 | 250 | 300 |
| Iodine Value min (mg/gm) | 900 | 1100 | 1300 | 1600 |
| Moisture (%) Max | 5 | 5 | 5 | 5 |
| ph | 10 | 10 | 10 | 10 |
| Ash (%) Max | 15 | 12 | 12 | 12 |
| Ironppm Max | 500 | 500 | 500 | 500 |
| Acid Soluble Matter (%) | 10 | 10 | 10 | 10 |