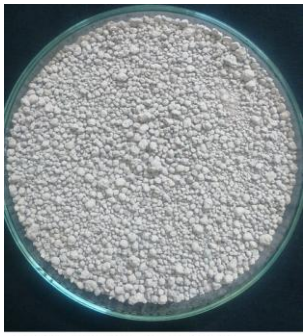
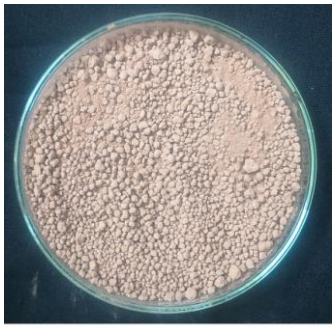
IMPROVED PHOSPHORUS (P) AND ZINC (Zn) FERTILIZER FORMULATION FROM BIOSLUDGE

Phosphatic fertilizer from biosludge obtained from distillery waste has developed and the process is patented (No.758/MUM/2007 Dated 19.04.2007, Indian Patent No. 238485).
This fertilizer contains more available phosphorus and is more efficient than conventional single super phosphate (SSP) fertilizer. By keeping the application rate 25% less than SSP in terms of the absolute P_2O_5 level, the new modified P fertilizer produces equivalent or slightly higher yields and ensures better availability of residual fertilizer to the next crop as well.



PHOSPHORUS FERTILIZER
(17-18 % P_2O_5)



ZINC FERTILIZER (4-5% Zn)

Zinc fertilizer from biosludge obtained from distillery waste has developed and the process is patented (No.757/MUM/2007 Dated 19.04.2007, Indian Patent No. 239929). This Zn fertilizer containing 4-5% Zn is more efficient than conventional Zn fertilizer (Zinc sulphate heptahydrate, 21-22% Zn). Keeping the Zn application rate same (5 kg Zn/ha), the modified Zn fertilizer produces higher yields and ensures better availability of residual fertilizer to the next crop as compared to the conventional zinc sulphate heptahydrate.
Both the technologies are transferred to industries and products are available in the market.

For technology transfer contact…
Head, Technology Transfer and Collaboration Division, BARC, Mumbai 400 085
Phone: 022-25590153 Email: technology@barc.gov.in

For technical matter..
Head,
Nuclear Agriculture and Biotechnology Division, BARC, Trombay, Mumbai 400 085
Phone: 022-25595423/3830 Email: prasanna@barc.gov.in /smehetre@barc.gov.in