Supplementary Information

Synthesis and applications of MnO_2 -enriched urea nanofertilizer on chili *Capsicum annuum L.* plant

B. Ashwini & T. Devasena*

Centre for Nanoscience and Technology, Anna University, Chennai- 600025, Tamil Nadu, India

*E-mail: tdevasenabio@gmail.com

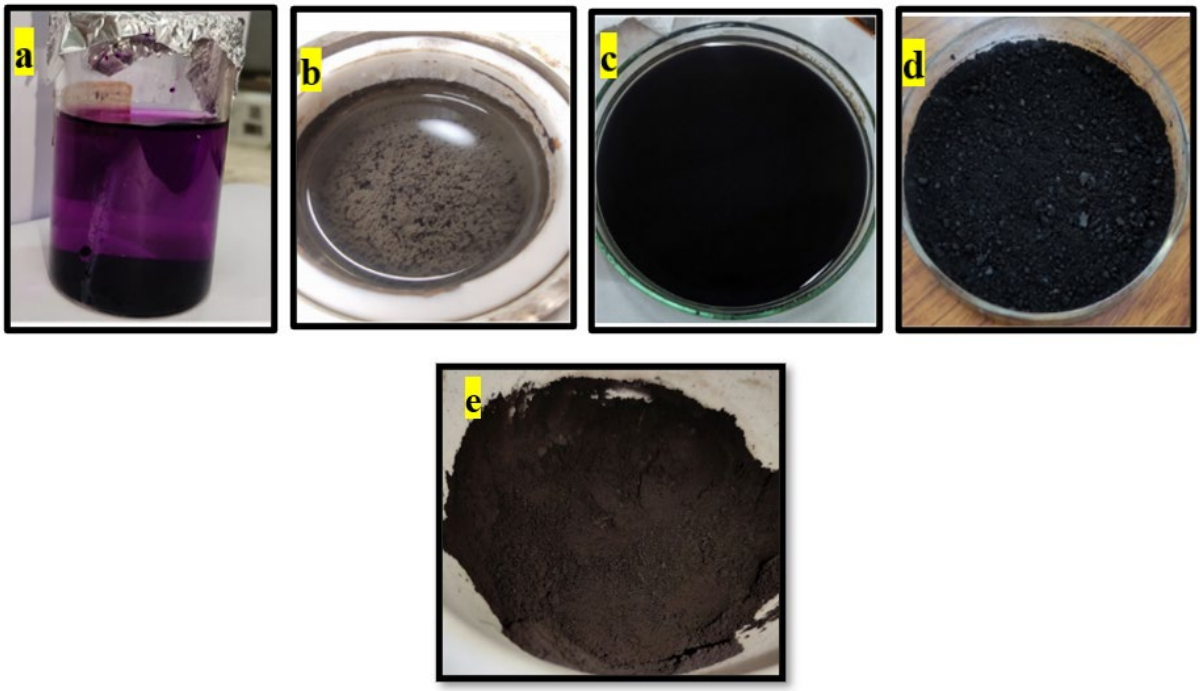

Fig. S1 — Photographs of (a) precursor ($KMnO_4$), (b) during autoclave (hydrothermal process), (c) washed and filtered, (d) vacuum- dried sample and (e) MnO_2- enriched urea nano fertilizer

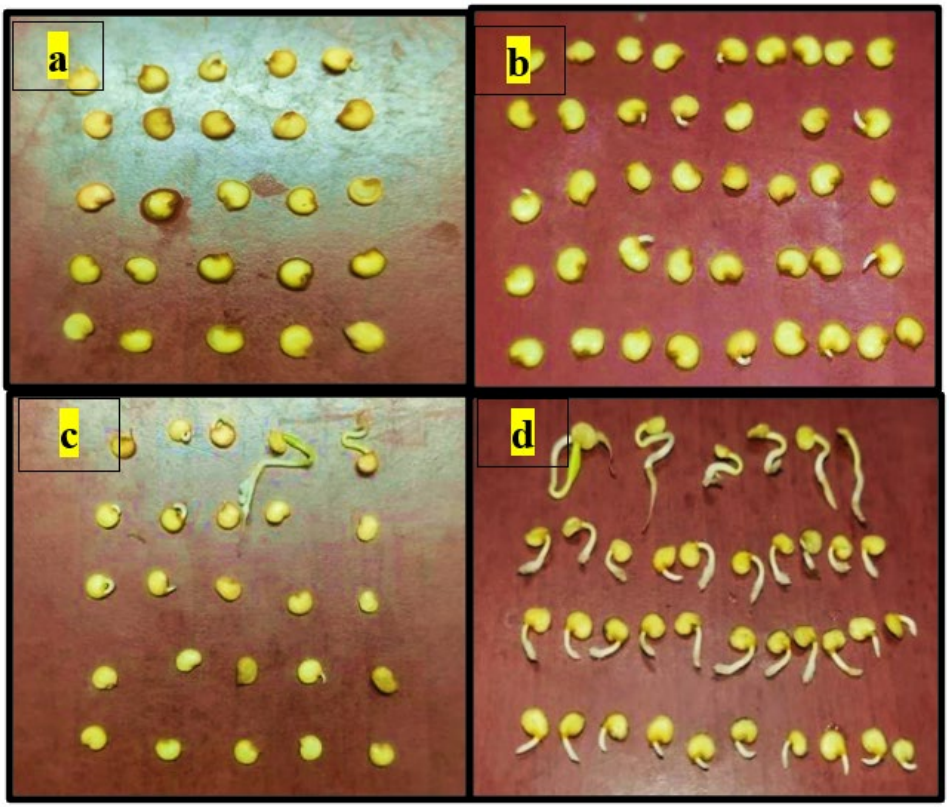

Fig. S2 — Germination of seeds

Fig. S3 — Photographs represent the plant growth after Day 120 (i.e.) growth of plant with different ratios & concentrations of Nano Fertilizer. Fig. 10 indicates the different ratios from a to c, where a is the Control, b is the MnO_2 control (3:0), and c is urea control (0:3). Fig. d to g represents the use of synthesized MnO_2-enriched urea nano fertilizer in different concentrations where d is 10 ppm, e is 20 ppm, f is 30 ppm and g is 40 ppm Concentration in the ratio (3:1).

Fig. S4 — Flowering observation at 10, 20, 30 and 40 ppm