Agricultural fields under study

Plate 1: Road map of Aligarh District in Uttar Pradesh Province, India
Plate 2: A. Drainage of wastewater containing the effluents of lock industries at Aligarh-Iglas Road. B. Use of pumping set for wastewater irrigation of agricultural fields at Aligarh-Iglas Road.
Plate 3: A. Wastewater irrigated open field at site-A. B. Crop (Cauliflower) in wastewater irrigated field at site-B.
Plate 4 (A): Colonial characteristics of some metal tolerant common soil fungi having multiple plant growth promoting activities isolated from wastewater irrigated agricultural fields.
Plate 4 (B): Colonial characteristics of some metal tolerant common soil fungi having multiple plant growth promoting activities isolated from wastewater irrigated agricultural fields.
Plate 4 (C): Colonial characteristics of some metal tolerant common soil fungi having multiple plant growth promoting activities isolated from wastewater irrigated agricultural fields.
Plate 5: Phosphate solubilization (A and B), organic acid production (C) and metal \((\text{MnCO}_3)\) solubilization (D) by \textit{Aspergillus niger}. 
Plate 6: Effect of cadmium on spore germination of *Aspergillus niger* at different concentrations after 80 hrs of incubation period.
Plate 7: Effect of cadmium on the growth of *Aspergillus niger* at different concentrations in liquid medium.
Plate 8: Effect of cadmium on radial growth of *Aspergillus niger* at different concentrations after two days of incubation period.
Plate 9: Different morphological responses (colony color and texture) of *Aspergillus niger* against toxic metals at different concentrations.
Plate 10: Effect of bacterial–fungal inoculation of the growth of chickpea

T<sub>c</sub> - Uninoculated and Unfertilized control
T<sub>9</sub> - *Mesorhizobium* + *Aspergillus niger*
T<sub>14</sub> - *Mesorhizobium* + *Aspergillus niger* + *Penicillum sp-03* + *Rhizopus oryzae*
Plate 11: Effect of bacteria-fungal inoculation on the root growth and nodulation of chickpea

$T_c$ – Uninoculated and Unfertilized control

$T_9$ – *Mesorhizobium* + *Aspergillus niger*

$T_{14}$ – *Mesorhizobium* + *Aspergillus niger* + *Penicillium* sp-03 + *Rhizopus oryzae*
Plate 12: Effect of fungal inoculation on the root growth and nodulation of wheat

A – *Penicillium* sp-03 + *Rhizopus oryzae*

B – *Aspergillus niger* + *Penicillium* sp-03

C – *Aspergillus niger* + *Penicillium* sp-03 + *Rhizopus oryzae*
Plate 13: Effect of fungal inoculation on the growth of Ear/spike let of wheat
A - *Penicillium* sp-03 + *Rhizopus oryzae*
B - *Aspergillus niger* + *Penicillium* sp-03
C - *Aspergillus niger* + *Penicillium* sp-03 + *Rhizopus oryzae*