Text S2 Physico-chemical properties analysis

The soil pH was measured at a soil: water ratio of 1:2.5 (w/v) using the pH meter (Sartorius PB-10). Total phosphorus (TP) and total potassium (TK) was determined by flame spectrophotometry. Soil available phosphorous (AP) was extracted with 0.5 M $NaHCO_3$ and determined by the molybdenum- antimony colorimetric method. Total nitrogen (TN) was determined by Kjeldahl digestion method. Alkaline nitrogen (AN) was determined by the alkali-hydrolysis diffusion method. Ammonia nitrogen (NH_4^+-N), and nitrate (NO_3^--N) of the soil were determined by potassium chloride extraction method. The conductivity (EC) value was measured by direct reading using DDSJ-308F conductivity meter.