The ground water tugging plumpung model is designed to draw water in sandy soil and make it available for plants. Plumpung (local name) is a pottery made from clay, a cylinder type, and void inside. It has many holes arranged vertically or slantwise. Unlike the clay soil, the sandy soil does not have a strong pulling matrix, so that the ground water will be retained underneath.

Installing plumpung by burying in sandy soil serves to draw water from the ground to the surface of soil in a natural mechanistic way and make water available for plants.

Under conventional farming, irrigation water is supplied through the soil surface. This system is ineffective and inefficient if the texture of soil is sandy.

The installment of plumpung can overcome the shortage of water for crops in sandy soil. Irrigation system of this kind can prevent a loss of water by evaporation and loss of fertilizer by leaching.