

Design attachment for earthmover for uprooting Vetiver roots

KVK Name: Sheohar
Name: Sunil Kumar Singh, Village: Kushahar
Age: 50
Gender: Male
Mob.: 6203301719
Education: Graduation
Farming experience: 14
District: Sheohar, State: Bihar



Brief about innovation:

Vetiver grass (*Chrysopogon zizanioides*) builds an exceptionally deep fibrous root network reaching 3–4 m within a year—which binds soil tightly, making manual uprooting laborious, time-consuming, and often leaving roots caked in heavy soil. Your earthmover attachment addresses this by combining a hydraulic cutter, bar-rod conveyor, and multi-stage drum agitator: it severs roots cleanly to 15–20 cm, gently lifts them, strips most soil, and then shakes off residual clod suppress root structure while producing clean, bare-root clumps with significantly less labor.

Specification/utility:

This earthmover attachment mechanizes vetiver uprooting cutting at 15–20 cm, gently lifting with an eccentric blade, then stripping and shaking off soil via a conveyor and multi-stage drums to deliver clean, intact root clumps in a single pass, saving significant labor and time.

Photographs

