



State Award – Assam

Soil Clod Crusher

Suchil Teron
Kamrup, Assam
Scout: Direct

Suchil Teron (38) had a challenging childhood where he shuffled between school and paddy fields. The demise of his father when he was 10 made him leave school and work full-time to support his family. While doing odd jobs over the next many years, he slowly got an understanding of various machines, how they work and how they can be repaired. Now, he continues his farming, his workshop and also has a stone quarry.

Passionate about farming, he does not like agricultural fields remaining unproductive and leases them for farming from their owners. While working on one such farm, he found the soil too hard for ploughing, and he came up with the idea of developing a soil clod crusher. This device is an individual unit fitted behind a cultivator. The cultivator stirs and pulverizes the soil before planting to aerate the soil and prepare a smooth, loose seedbed. After planting, the cultivator is used to kill the weeds. The clod crusher acts in two ways (i) breaks the soil clods and (ii) buries the uprooted weeds into the soil for mulching.

The length of the clod crusher is a foot more than that of the cultivator to provide a better coverage area. The machine covers 0.32 ha per hour, consuming 3.5 litres of diesel.

He has also developed several useful implements, like a wetland leveller, which can be used in wetland, on uneven land with slopes and clods. The tractor-mounted wetland leveller was developed for primary levelling operation, followed by soil compaction and final proper levelling. To improve the output of ploughing, he added one more plough to the conventional two-plough mechanism. In large-scale mustard cultivation, he faced difficulty pumping water directly onto the field as the mustard plants died from water flooding. Then seeing the water sprayer used in road construction, he developed a boom sprayer to spray water on a mustard oil field of 40 feet in length at a time. He believes that for a society to march ahead, the problems need to be solved and urges everyone to identify a problem and works towards its solution.

