

Support and Implementation

Around 10 to 12 years ago, the Government of Sindh introduced laser land levelling technology through a demonstration event for local farmers. Impressed by the presentations, many farmers, were eager to adopt this innovative technology. However, a lack of skilled labor and financial constraints initially prevented its widespread use. Later, a few progressive farmers in the region, taking advantage of government subsidies, purchased 1-2 laser units and brought in skilled operators from Punjab. After witnessing the excellent results, trials were conducted by renting the laser levelling services, which led to significant improvements in crop yields and water efficiency.



Benefits

- Uniform soil moisture distribution
- Uniform irrigation reducing under irrigation and over-irrigation issues
- Improved irrigation efficiency
- Better crop germination
- Reduced water and nutrient losses

Challenges

- High input cost
- Lack of awareness amongst farmers
- Training of Operators



Figure: LASER Land levelling (left). Ridge plantation of sugarcane followed by laser levelling.

