

SPECIFICATION:

Electrical Input (Transmitter):	12V DC
Electrical Input (Receiver & Control):	12V DC
Electrical Connector:	Mil spec. C-5015
Operating Temperature:	0°C to 55°C
Environment:	100% moisture & dust proof
Operating Range:	300 meter (Radius)
Level Accuracy:	+/- 3mm per 60 meter



LASER LAND LEVELER finds applications in Agricultural, Survey and Site Mapping, and Construction. Precision land leveling is a pre-requisite in modern agriculture. Due to the acute shortage of water in various countries, land leveling becomes even more important. With the use of AGRIPAK-LASER LAND LEVELING SYSTEM one can produce a highly plane soil surface. A properly leveled land will:

- Save water upto 30%
- Lessen salinity and water logging problems
- Increase Fertilizer efficiency
- Lessen area taken by ditches and dikes
- Reduce labour requirements of irrigation by 35%
- Increase yield upto 20%
- Improve uniformity of seed germination
- Reduce Surface erosion
- Improve efficiency of Farm Machinery



TRANSMITTER: APD-LL-700 Transmitter is the heart of Laser Land Leveling System that establishes a reference plane of light above the work area. The Beam of Light rotates 600 RPM & covers a working radius 300m. It is provided along with a 3M tall tripod.



RECEIVER: Omni-Directional device that detects the position of the laser reference plane and transmits these signals to the Control Box. These signals are processed to indicate the relative position of the Receiver with respect to the Laser Beam. The Receiver is used in all machine control applications such as Land Leveling, Drainage and Construction sites.



CONTROL BOX: This receives and processes signals for the Receiver. The Control Box displays these signals to indicate the blade's relative position to grade for either manual operation or provide automatic control interfaced with the Machine's Hydraulic System. It also provide output for driving solenoid valves.



UNIVERSAL LASER DETECTOR is hand held and rod mounted battery operated receiver that locates the position of rotating laser beam. It indicates the position on LCD display with synchronous audible tones. It is used for the calibration of transmitter and field survey.

SCRAPER is bottomless, extremely rugged, heavy duty construction soil scraper, made for rough and hard conditions suitable for 60-90 HP tractor for automatic laser land leveling. It has independent PTO driven hydraulic pump to operate the hydraulic system of the scraper controlled by solenoid valve assembly.

