3. LAND CLEARING AND DEVELOPMENT OPERATION AND EQUIPMENT

The end use requirement of a developed land determines the methods or techniques of land clearing and development to be adopted.

- Factors to consider in determining methods and equipment for land clearing
Many factors affecting production and cost are included in type and density of vegetation such as number of tree size, wood density/type (soft or hard wood), root and undergrowth. All these variables can be determined by a tree count exercise.

- Land clearing and development operations
The operations involved in land clearing and development are:
* Tree counting and site survey to determine equipment types and sizes.
* Tree felling
* Tree piling & raking, windrowing
* Root and stone raking
* Final field clearing
* Cut & fill of high and low spot respectively
* Deep plowing
* Field and block drain construction

- Land preparation for crop raising
* Trash removal
* Plowing
* Harrowing
* Land levelling and smoothening
* Row marking
* Ridging

- Agricultural land clearing package equipment
This package consist crawler tractor equipped with:
* Complete jungle land clearing protection package or forest canopy.
* Rome ‘A’ blade or shear blade
* Rake or brush rake
* Clearing chain
* Tree pusher
* Rome plowing, land clearing harrow.

- Agricultural land development package equipment
This package consist of:-
Agricultural crawler or wheel tractor equipped with:
* Light bulldozer and draft arm assembly (earth moving operation)
* Tine cultivator
* Plowing harrow
* Toolbar and 3 subsoiler tines
* Mouldboard or disc ridger if necessary
* Tiltbed trailer and winch
* Motor grader
* Land planter (land levelling operation)
* Excavator