

### **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 smoothing

- \* 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