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CLASS: JS 2

SUBJECT: BASIC TECHNOLOGY

TOPIC: SITE PREPARATION: HAND TOOLS AND MECHANICAL PLANTS

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INTRODUCTION

A site has to be cleared from obstructions before a foundation can be constructed on the land.

HAND TOOLS

Hand tools are equipments used manually in site preparation operations. The tools can only be used for light operations and not the complex ones.

The hand tools used in site preparation operations are:

- * Chain saw

- * Matches

- * Axe

- * Hoe

- * Spade

- * Shovel

CHAIN SAW

It is a motorized petrol or diesel engine used for felling trees. It can also be used for cutting trunks and stumps into smaller sizes.

MATCHET

It can cut branches of felled trees or cutting of light standing trees.

AXE

Axe is used for removing trunks and stumps. It can also be used for cutting heavy branches of trees.

HOE

Hoe is used for hoeing and removal of soil from the ground.

SPADE

Spade is used for digging ground such as top soil or gradually soft soil.

SHOVEL

Shovel is used for leveling and moving of earth or Sand.

MECHANICAL PLANTS

Mechanical plants are used in handling the complex operations that are difficult to handle with mere hand tools.

EXAMPLES OF MECHANICAL PLANTS

- * Bulldozer
- * Grader
- * Payloader or tractor shovel.

BULLDOZER

Bulldozer is a very powerful plant with a wide steel blade in the front used for pushing down heavy trees, buildings and pushing moveable stones.

GRADER

Grader is a plant use for leveling of soil, cutting of channels and trimming of road edges.

PAY LOADER OR TRACTOR SHOVEL

Payloader has a loading shovel in front used for lifting large quantity of earth, debris etc and loading into tippers or trucks.

SETTING OUT

Setting out is the method by which the details of the foundation plan are accurately transferred to the ground with the use of pegs, lines and tape.

INSTRUMENTS FOR SETTING OUT

* Steel square

* Theodolite

*pegs

* Lines

* Tapes