

## 5(a) Factor affecting productivity

### (1) Man Power

Selection of right man for a specific job applying well known saying division of labour. Man power requirement planning in each of the department of required skill.

### (2) Equipment and Machines

The number of machine tools their capacity and accessories required, replacement policy of the organization and maintenance schedule etc.

### (3) Input material

- (i) Appropriate quality of material.
- (ii) Material requirement planning.
- (iii) Substitute of materials being used.
- (iv) Inspection of input material at various points.

#### (4) Time :

- (i) Inspection of input materials.  
ie raw material and semi finished or finished items required for assembly.
- (ii) Time for inspection of finished products.
- (iii) Time for repair and maintenance of machines and equipment.

#### (5) Floor Area or space

- (i) Total area covered by the administrative block and production shop and inspection & quality control department etc.
- (ii) Location of different department and shops etc.
- (iii) Other space covered by plant layout.

#### (6) Power or Energy

- (i) Maintenance of equipment for saving energy.
- (ii) Use of renewable energy device.
- (iii) Use of biogas, photovoltaic cells, solar energy and other non conventional techniques.

#### (7) Finance

Finance is required to maintain all the above requirement. The management should be for minimum rather optimum finance.

## Productivity measurement

A productivity measure is expressed as the ratio of output to inputs used in a production process. Ex: output per unit of input.

Productivity is crucial factor in production performance of firm and nations. Increasing national productivity can raise living standard because more real income improves peoples ability to purchase good and service, enjoy leisure improve housing and education and contribute to social and environmental programs.

There are many different definitions of the productivity and the choice among them depends on the purpose of the productivity measurement and/or data availability.

Productivity

AGGREGATE  
BASIS

INDIVIDUAL  
BASIS

TOTAL  
PRODUCTIVITY

PARTIAL  
PRODUCTIVITY