BREAK EVEN POINT (BEP)

BEP is a point at which the total cost (expenses) and revenue are equal. It is a no loss and no gain situation for an entrepreneur.

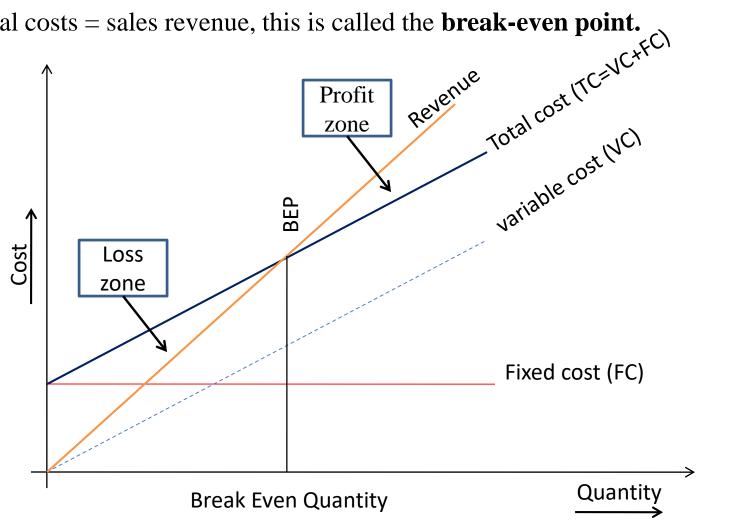
Types of cost:

- 1. **Variable cost**: It is directly associated with product and increase by a step every time an extra product is sold. Generally, we assume that it follows linear relation with product (that may not be the case every time). Example material cost associated with product, labour cost, energy cost etc.
- **2. Fixed cost**: Those costs which has to be paid even if no product is sold. Example rent, machine cost, interest on loans etc.

Variable cost + Fixed cost = Total cost

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When total costs = sales revenue, this is called the **break-even point.**



• Break-even point can be calculated by following equation. The equation method is based on the cost-volume-profit (CVP)formula.

$$pq = vq + FC + Profit$$

Where,

p is the price per unit,

q is the number of units,

v is variable cost per unit and

FC is total fixed cost

At break-even point the profit is zero therefore the CVP formula is

$$pq = vq + FC$$

Thus Break-even Sales Units (q)