LEACHING REQUIREMENT, (L.R)

$$L \cdot R = \frac{D_d}{D_a} = \frac{C_i}{C_d} = \frac{(E \cdot C)_i}{(E \cdot C)_d}$$

 $L \cdot R = \frac{D_d}{D_a} = \frac{C_i}{C_d} = \frac{(E \cdot C)_i}{(E \cdot C)_d}$ where, D_d = Depth of water drained out per unit area

D_a = Depth of water applied per unit area

C_i = Salt content of irrigation water

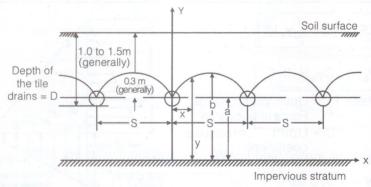
C_d = Salt content of drained water

(E.C); = Electrical conductivity of irrigation water

(E.C)_d = Electrical conductivity of drained water.

DEPTH & SPACING OF TILE DRAINS

$$S = \frac{4k}{q}(b^2 - a^2)$$



S = Spacing of tile drains in m where,

k = Coefficient of permeability in m/s

q = Total discharge per unit length of tile drain m³/s/m

b = height of water table above the impervious layer

a = depth of imprevious stratum below centre of the drain.

$$q = \frac{\left(\frac{p}{100}\right)}{24 \times 3600} \cdot (S \times I)$$

 $(S \times I)$ where, P = Annual rainfall in meter at a place.