

8. let no. of rows = no. of columns = x
 acc. to condition

$$x \times x = 1000$$

$$\Rightarrow x^2 = 1000$$

$$\because 1000 = x^2$$

it should be a perfect square
 to get an integral value of x

Smallest no.
 which should be
 added to 1000
 to get a perfect
 square = 24

$$\begin{array}{r} 32 \\ 3 \overline{) 1000} \\ \underline{9} \\ 100 \\ 62 \\ \underline{124} \\ -24 \end{array}$$

\therefore More plants required = 24
 (minimum)