

Modern Methods of Irrigation

Modern methods of irrigation help us to use water economically. The main methods used are as follows:

(i) Sprinkler System: This system is more useful on the uneven land where sufficient water is not available. The perpendicular pipes, having rotating nozzles on top, are joined to the main pipeline at regular intervals. When water is allowed to flow through the main pipe under pressure with the help of a pump, it escapes from the rotating nozzles. It gets sprinkled on the crop as if it is raining. Sprinkler is very useful for lawns, coffee plantation and several other crops [Fig. 1.5 (a)].

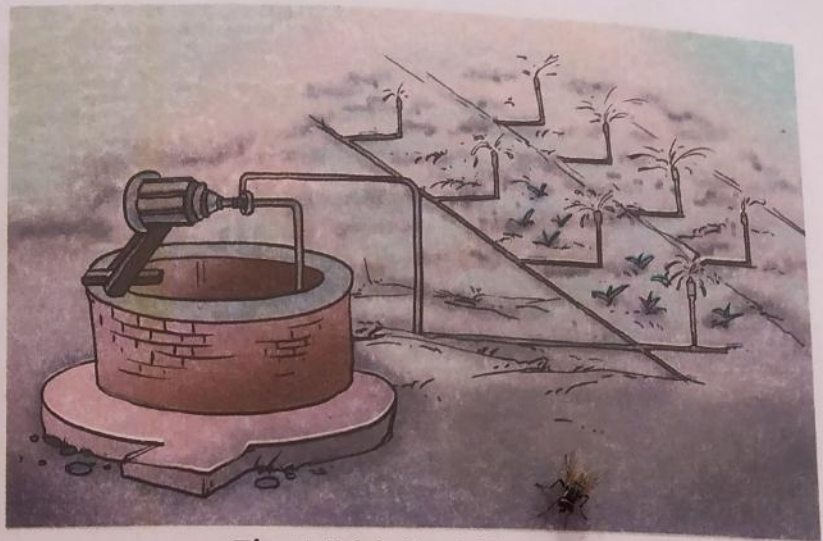


Fig. 1.5 (a) : Sprinkler system

(ii) Drip system : In this system, the water falls drop by drop directly near the roots. So it is called drip system. It is the best technique for watering fruit plants, gardens and trees [Fig. 1.5(b)]. Water is not wasted at all. It is a boon in regions where availability of water is poor.



Fig. 1.5 (b) : Drip System

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SUBJECT - SCIENCE

CLASS - VIII

CHAPTER - 1

Task 'A - Read the chapter.

Task 'B - UR these Q/A.

Q17. ^{Explain} ~~Write~~ down two modern methods of irrigation with colourful diagram.

Ans.

* Sprinkler system : → fig 1.5 (a) at page no. 9.

In this system, perpendicular pipes having rotating nozzles on top, that are joined to main pipeline. When water flows through main pipeline under high pressure with the help of pump, it escapes from rotating nozzles like raining. It is useful for sandy soil.

* Drip system : → fig 1.5 (b) at page no. 9

In this system water falls drop by drop near the roots and water is not wasted. It is useful for fruit-plants, garden and trees. It is useful in regions where availability of water is poor.