



TURBO DRIPPER
4 / 8 /14 LPH



**AQUARIUS PCND
DRIPPER**
4 / 8 LPH



K-GOL DRIPPER
2 / 4 LPH



K-GOL PC DRIPPER
2.5 / 4.5 LPH



K-LIN DRIPPER
1.2 / 2 / 4 LPH



K-LIN PCND DRIPPER
1.6 / 2.2 / 3.4 LPH



KOTHARI[®]
— IRRIGATION —

EXCELLENCE IN SUGARCANE PRODUCTION ONLY WITH KOTHARI DRIP IRRIGATION

Kothari Agritech Pvt.Ltd. is a ISO 9001: 2008 certified company. Keeping in mind the long-term requirements of the farmers, the pipes required for farming, material for Drip Irrigation and it's spare parts etc are manufactured here. Kothari Agritech Pvt. Ltd. is known for its after sales service for the customers, high quality and reliable products. Sugarcane is one of the important cash crops of Maharashtra. The cooperative sugar industry has tremendously changed the financial, social and educational conditions of rural people, but due to the greedy sugarcane production, use of excess water, improper use of the fertilizers has lead to tremendous low yield of sugarcane and it is termed as the loss making farming. This manmade disaster, has made us to think of effective irrigation method and balanced use of fertilizers, to increase the sugarcane yield on priority.

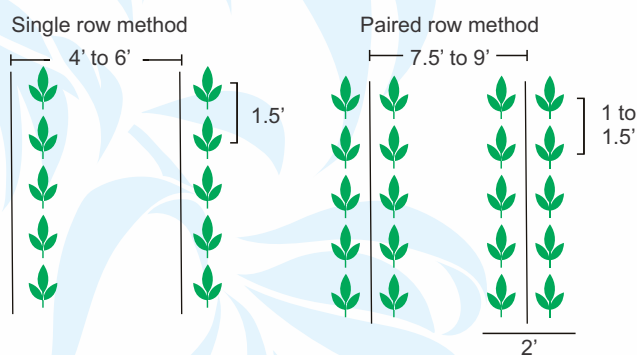
Benefits of Kothari Drip Irrigation for Sugarcane

- 1) Since Kothari Drip Irrigation uses drippers made up of Israel's technology, it provides equal amount of water and fertilizers.
- 2) Kothari Drip Irrigation leads to equal and timely germination.
- 3) Kothari Drip Irrigation leads to best and equal shoots. So the progress of the crop is equal.
- 4) Kothari Drip Irrigation saves 45 – 50 % of water in sugarcane cultivation.
- 5) Since the soluble fertilizers are supplied directly to the roots, it saves the fertilizers and increases efficiency.
- 6) Kothari Drip Irrigation saves cost of labour.
- 7) Kothari Drip Irrigation makes an efficient use of fertilizers and water management, so you get higher sugar recovery.
- 8) Kothari Drip Irrigation is useful even in marginal soils.
- 9) Kothari Drip Irrigation saves the cost of electricity.
- 10) Kothari Drip Irrigation maintains the quality of the soil and increases sugarcane production.

Type of Sugarcane Cultivation

Single Row Method : In this method, the distance between two rows is 4 to 6 ft. as per the type of soil. The required seeds are less since there is lot of sunlight and fresh air, it leads to the high yield of sugarcane.

Paired Row Method : In this method, the distance between one double line should be 1.5 to 2.5 ft and the distance between two double lines should be 7.5 to 9 ft, so the middle belt is 5 to 6 ft. it leads to more sunlight and fresh air and increases sugarcane yield.



Soil : Sugarcane requires medium to heavy soil with good drainage. For best sugarcane yield, the pH of soil should be 6.5 to 8. Organic Carbon should be more than 1%

Preparatory Tillage : The efficient roots of the sugarcane crop are 40 cms deep and they absorb more than 90% of the nutrients and water, if the soil is soft. Proper tilling of soil is required for good sugarcane yield.

Selection of Seeds : For good sugarcane yield the seedling should be free of diseases and pests. Seedling should be from 9 – 10 months old sugarcane farm. Before cultivation dip the seeds in 3 gms Bavistin 2ml Chlorpyrifos solution for 15 minutes. Select 1 or 2 eyed seedling.

Selection of Drip : Since the efficient roots of sugarcane are 40 cms deep and absorb 90 percent of nutrients and water, select proper Drip Irrigation System. The distance between two drippers should be 30 to 40 cms as per the type of soil. The flow of dripper should be 2-4 ltr. Use Kothari inline drip for sugarcane.

Water Management : During the initial stages management of Drip Irrigation is important for equal production. Provide water immediately after cultivation till there is a 25-30 cms wet belt on both sides of dripper line. If needed kindly seek the advice of crop experts of Kothari Drip Irrigation. Water Should be provided every day. After the development of the crop provide water in 2-3 days as per the type of soil.

Requirement of water (WR) = Evapotranspiration (Eto) crop coefficient (Kc)

Month	(Eto) Evaporation rate mm/day	Crop coefficient (Kc)	Requirement of water(WR)	Density mm/month
January	2.6	0.60	1.1	348.13
February	3.5	0.65	1.6	452.20
March	5.3	0.90	3.4	1043.15
April	7.5	0.90	4.7	1432.80
May	8.2	1.00	5.7	1781.88
June	5.7	1.00	4.0	1199.40
July	4.1	1.15	3.3	1034.16
August	3.2	1.15	2.6	822.43
September	3.3	1.15	2.7	819.60
October	3.7	1.0	2.6	812.51
November	3.1	0.85	1.8	556.90
December	2.6	0.85	1.5	487.90

The above chart is a guide so make changes as per the season and type of soil.

Fertilizer Management : Nowadays in farming Drip Irrigation and providing fertilizers (fertigation) is becoming popular. In order to get maximum benefits of Drip Irrigation the use of fertigation technique is essential.

Period of crop Days	Manure/ Compost	Nitrogen kg/hector	Phosphate kg/hector	palash kg/hector
-	10. M.T./ hector (before cultivation)	10	23	-
31-45	-	17	12	5
46-120	-	50	15	18
121-190	-	40	-	25
191-210	-	3	-	12
		120	50	60

The above chart is a guide so make changes as per the season and type of soil. The recommendation of fertilizers depend upon the quality of soil and expected yield.

Kothari Drip Irrigation is useful for all types of sugarcane, types of cultivation, types of soil and is available in various flow rates and distance between drippers.

KOTHARI®

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