

Driptech
introduces one
more innovative
product

SprinklEzi

drip TECH
A JAIN IRRIGATION COMPANY

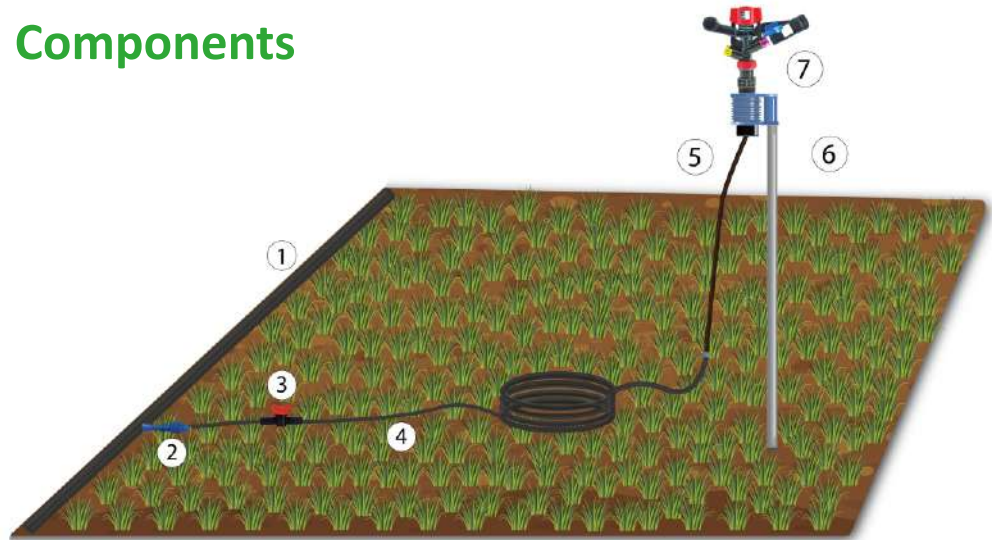
Economy

Ease of operation

Labour Saving

SprinklEzi Main Components

1. Submain 32mm
2. Take Off
3. Mini Valve
4. Poly Tube 16mm
5. Vinyl Tube 12mm
6. Riser Pipe
7. Sprinkler Head



Traditional Sprinkler



- High Labour Cost
- Drudgery of manual shifting of the pipes

SprinklEzi



- Easy to shift - No Drudgery
- No Labour Cost - Farmer can do it himself

SprinklEzi

Technical Specification



**Economical compared
to the traditional Sprinklers**



Power Saving
Runs on ultra low pressure

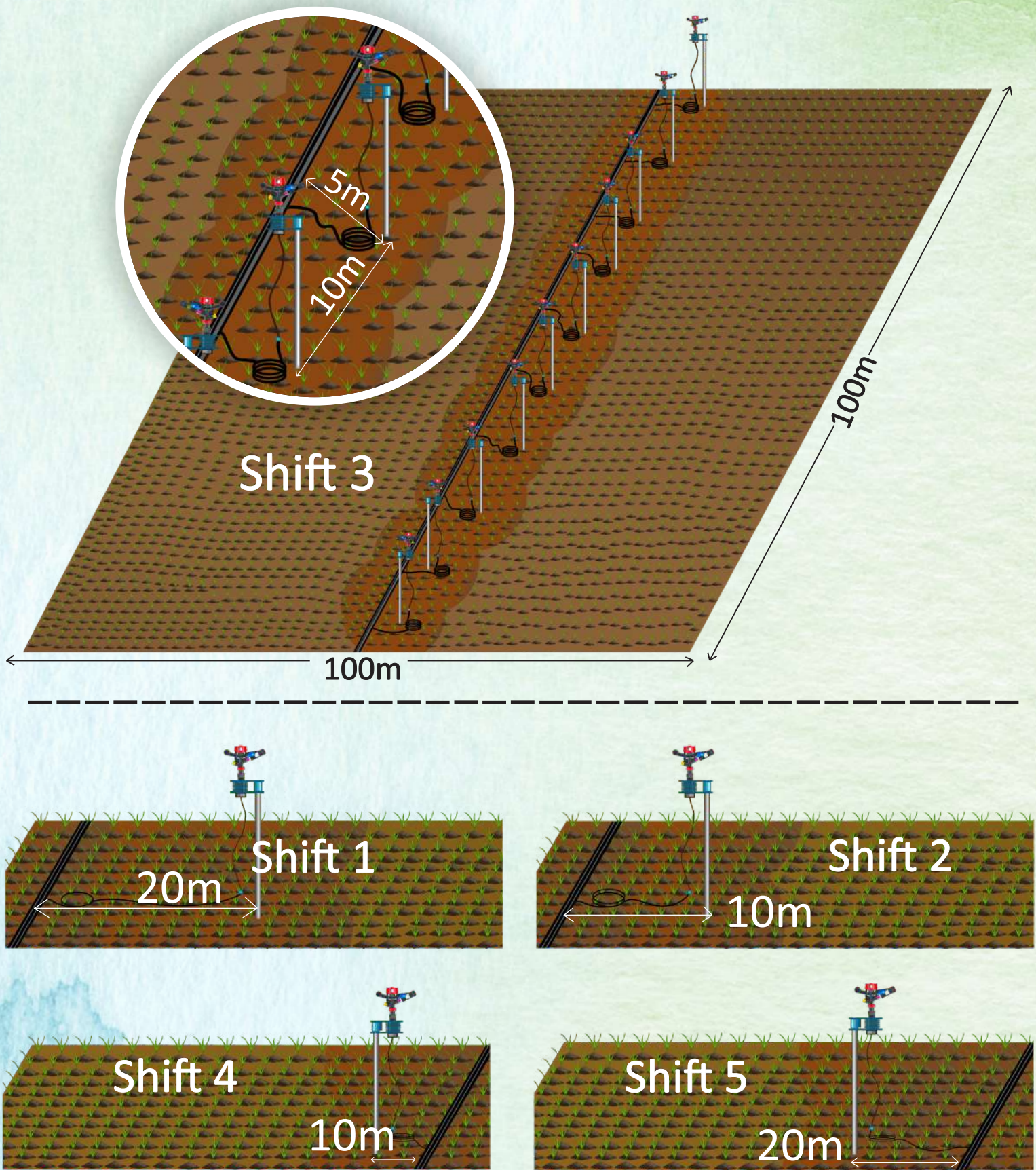
Sr. No.	Description	Specification
1	Area	1 Acre/1 Ha
2	Sprinkler Discharge	440 LPH
3	Required Operating Pressure	1.5 kg/cm ² (15m)
4	Lateral to Lateral Spacing	10 m
5	Sprinkler to Sprinkler Spacing	10 m
6	Wetting Radius of Sprinkler	9 - 10 mtr
7	No. of Sprinkler Operate at a time	10/20 mtr

List Of Components

BILL OF MATERIAL						
Sr. No.	CODE	MATERIALS DESCRIPTION	UNIT	For 1 Acre (CL1) QTY	For 1 Ha (CL1) QTY	Images
1	TO321100M TO321150M	TUBE OD32MM CL1 X 100 MTR*	Mtr.	100	200	
2	DTPO161100M	DT- POLY TUBE CLASS I OD BASED 16MM X 0.8 MM X 100 MTR*	Mtr.	200	500	
3	51527211U	SPRINKLER MINI 5022 SDU 2.5X1.8MM	Nos.	10	20	
4	HTOA12V	FEMALE TAKE OFF ADAPTOR 12/8 MM	Nos.	10	20	
5	EPDTO168M	16 MM EMITTING PIPE, DETACHABLE TAKEOFF 16 X 8 MALE	Nos.	10	20	
6	PMV1616	DIS/SIS JAIN MINI VALVE 16 MM X 16 MM	Nos.	10	20	
7	RPBDRJ1208	RAINPORT ASSEMBLY BIRD DETERRENT 1.2 M W/O RISER ROD & SPRINKLER	Nos.	10	20	
8	RR812	1/2" Plastic Sprinklers - Trangular plate riser rod	Nos.	10	20	
9	DRPJ32	RAINPORT JOINER 32 MM	Nos.	1	2	
10	SS063100	DIS/SIS SERVICE SADDLE 63 MM X 32MM HD	Nos.	—	2	
11	DRPEC32	RAINPORT END CAP 32 MM	Nos.	1	4	
12	DRPMTA3201	RAINPORT MALE THREADED ADOPTER 32 MM	Nos.	1	2	
13	RPFTA3201	DIS/SIS RAINPORT ADPT 32MM FEMALE X 32MM	Nos.	0	2	
14	DTT01	RAINPORT THREADED TEE 32MM	Nos.	0	2	
15	DSUV32FRP	BALL VALVE-SU RAINPORT CONNECTION 32MM	Nos.	0	4	
16	DSUV32HFM	BALL VALVE- SINGLE UNION 32 MM	Nos.	1	0	
17	DT-12290078	BARBED POLY JOINER 16MM	Nos.	5	10	
18	TT	TEFLON TAPE	Nos.	2	8	
19	SPR4	PUNCH TOOL	Nos.	1	1	

Shifting of Sprinkler Nozzles

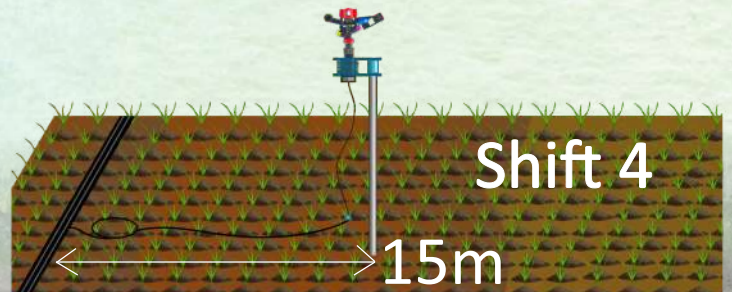
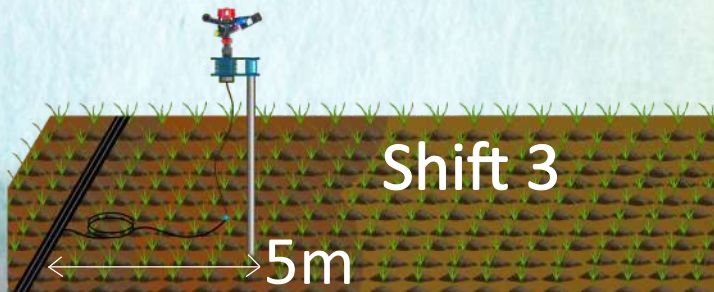
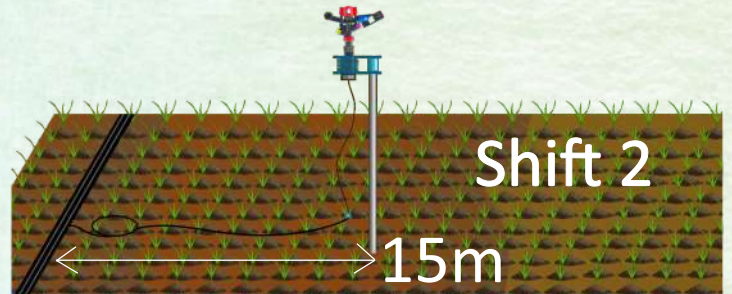
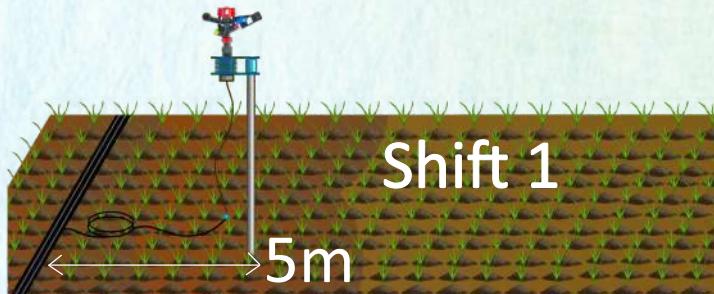
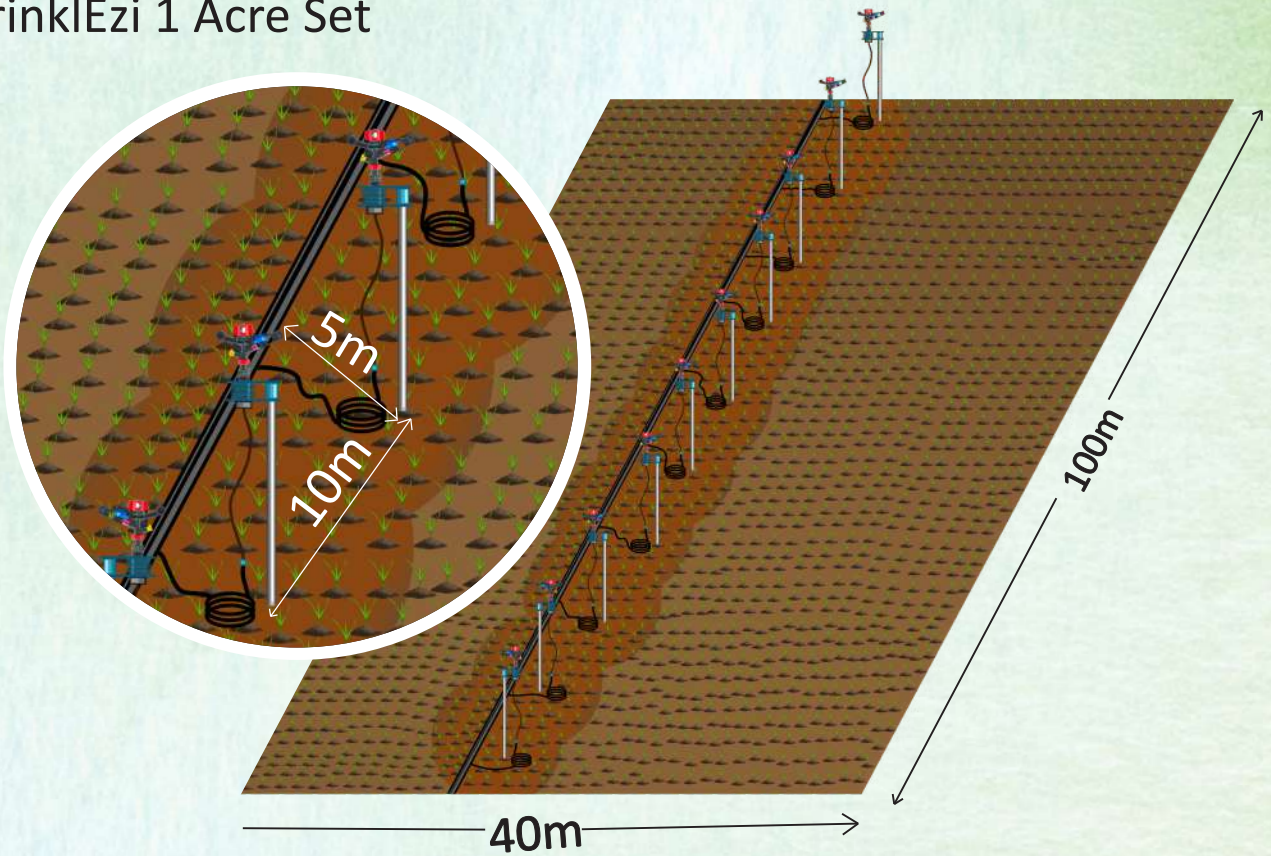
SprinklEzi 1 Ha Set



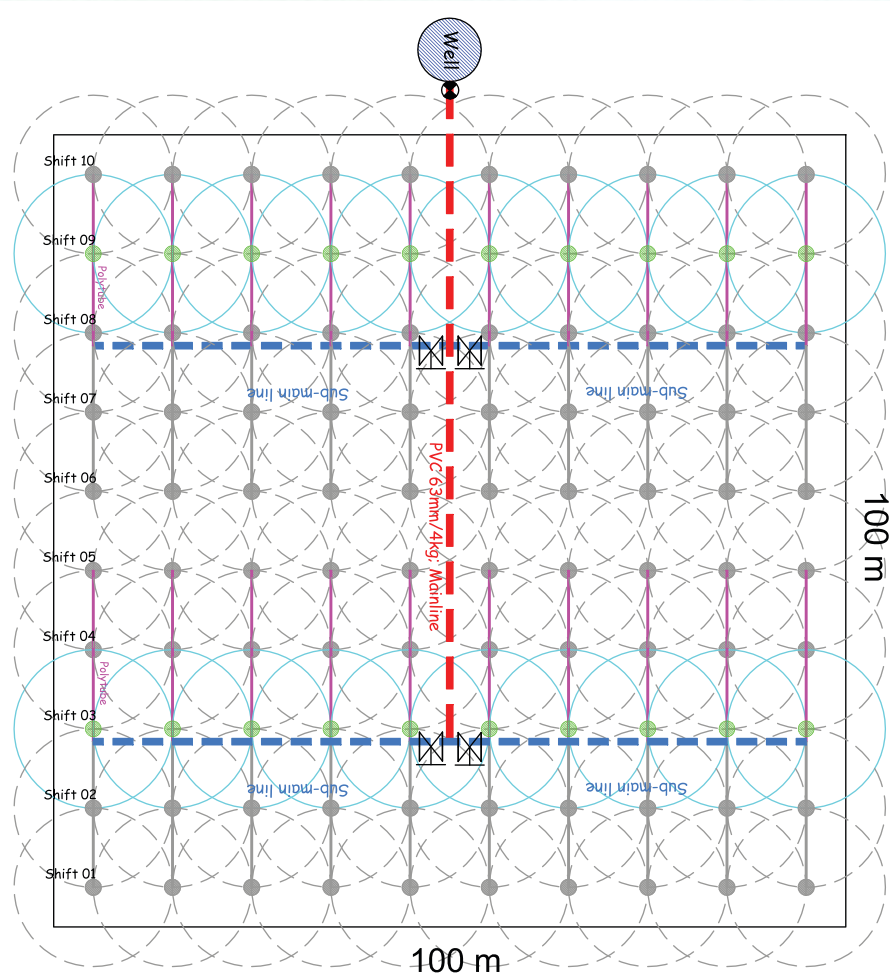
(Here, only 1 Sprinkle nozzle has been illustrated but all 10 Sprinkle nozzles are to be shifted & run simultaneously in the similar manner)

Shifting of Sprinkler Nozzles

SprinklEzi 1 Acre Set



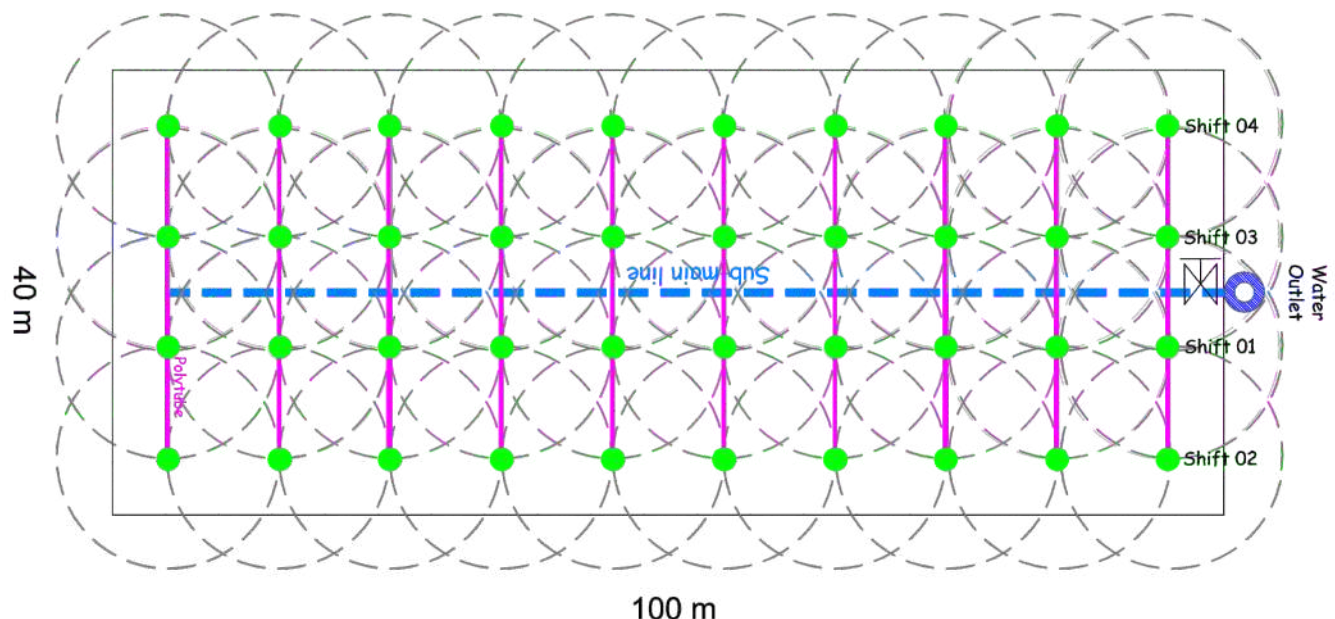
Sprinkler Nozzle Positions & Wetting Pattern



Legends

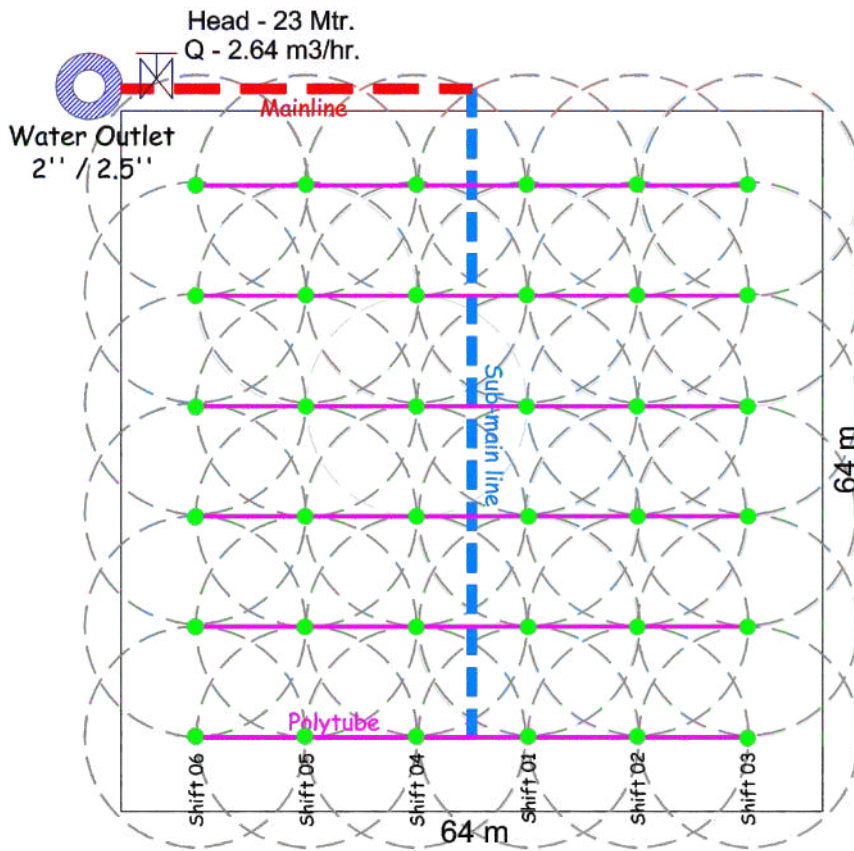
	Well
	Pump
	Filter Station
	ARV
	Valve
	Sprinkler
	Flush Valve
	Main Line
	Sub - Main
	Polytube

Illustrative layout of 1 Hectare (100m x 100m)



Illustrative layout of 1 Acre (40m x 100m)

Sprinkler Nozzle Positions & Wetting Pattern



	Legends
Water Source	
Section No	Shift 01, Shift 02,
Sprinkler Nozzle	 
Control Valve	
Main line	
Sub-main line	
Lateral line	

Illustrative layout of 1 Acre (64m x 64m)



IRRIGATION DATA

Net Area, Ha	0.40	0.40	1.00
Net Area	1 Acre	1 Acre	1 ha
Plot dimension in meter	100X40	64x64	100x100
Lateral to Lateral Spacing (meter)	10.0	10	10
Sprinkler to Sprinkler Spacing (meter)	10	10	10
Sprinkler Discharge (Liter/hr)	440	440	440
Sprinkler head Operating Pressure (kg/cm ²)	1.5	1.5	1.5
Application rate (mm/hr.)	4.4	4	4.4
Peak Water Requirement (mm/day)	6	6	6
Wetting Radius of Sprinkler (meter)	9 to 10	9 to 10	9 to 10
Total No. of Section	4	6	5
Area per Section (m ²)	1000	700	1000
No of Sprinkler Operate at a time	10	6	20
Time Duration of irrigating one Section (hr)	1.5	1.5	1.5
Total Irrigation time (hr)	5	9	7.7
Flow per Section(Liter / hr)	4400	2700	8800
Total Water Used (Liter)	17600	16300	44000

Head Loss (meter)

Net Area	1 acre	1 acre	1 Ha
Mini Sprinkler Operating pressure	15	15	15
Head Loss in Poly Tube 16mm (Lateral)	2.5	2.5	3
Head Loss in Sprinkler Riser	1	1	1
Head Loss in Sub-Main 32mm	6.5	2	1.5
Head Loss in Mainline 32mm	1	2.5	8.5
Head Loss in Fittings & Accessories	3	3	3
Depth of water source (Assumed) meter	7	7	7
Total head of the pump required to run the set (meter) *	36	33	39
Total Discharge of the pump required to run the set (Liter/hr)	4400	2700	8800

*Assuming that the depth of water in the water source is 7m and the source is within 50m of the plot