

SL.No	Items	Specification	Brand	Unit	Rate	Amount	Delivery schedule( Days)
<b>Irrigation</b>							
1	Button drip Emitter	2.2 and 4.2 LPH PC		Nos			30
2	Button drip emitter plus	2 and 4 LPH PC		Nos			30
3	Vinyl extension pipe	6 mm OD		Meter			30
4	HDPE Extension pipe	6 mm OD		Meter			30
5	Air release valve	20 mm in and out let		Nos			30
6	Venturi Injector	1" & 1 1/4"		Nos			30
7	Proportional Injector Pu	1" & 1 1/4"		Nos			30
8	Four Way - Multilevel Co	6mm out and 7 mm inlet		Nos			30
10	Two Way Connector	6mm out and 7 mm inlet		Nos			30
11	6mm plastic Tee	6 mm OD		Nos			30
12	6mm plastic Screwed Ta	6 mm OD		Nos			30
13	Stake Drip	1.5 LPH and 4 LPH PC		Nos			30
14	Mini Sprinkler low angle sprinkler (US made)	Operating pressure: 15-25 psi, Flow rate 95 to 495 L/hr		Nos			30
	Mini Sprinkler high angle sprinkler (US made)	Operating pressure: 15-25 psi, Flow rate 95 to 495 L/hr		Nos			30
14	Inverted mini-sprinkler (US made)	Operating pressure: 15-25 psi, Flow rate 95 to 495 L/hr		Nos			30
15	Excel high angle sprinkler (US made)	Flow rate 177 to 1735 L/hr, Operating pressure 10 to 30 psi		Nos			30

16	Latching solenoid	25mm orifice 32mm port female BSP threads. Built in voltage surge protection circuit, Capacity to be switch through wireless LoRa receiver boards, Operation voltage 12-24V DC/AC optional		set			30
17	Latching solenoid	50 mm orifice 50mm port female BSP threads. Built in voltage surge protection circuit, Capacity to be switch through wireless LoRa receiver boards, Operation voltage 12-24V DC/AC optional		set			30
18	Float Switch	Output capacity: 30 HP pump max, Cable length 4 meter		set			30
19	Irrigation filter	Filter 100 micron, Capacity 12 M3/hr, male BSP thread with pressure gauge		set			30
20	Irrigation filter	Filter 100 micron, Capacity 25 M3/hr, male BSP thread with pressure gauge		set			30
21	Line dripper	12mm LDPE, with 50-60 cm spacing, color white/brown/black		Meter			30
22	Line dripper	16 mm LDPE, PC with 50-60 cm spacing, color white/brown/black		Meter			30
23	Mini Fogger (US made)	1/4" M Barb connection, (white), with check valve		PCS			30
24	Detachable hose Connec	15-20mm, hose female connector with BSPT male adapter		PCS			30

25	Portable sprinkler stand	CPVC based, 35 cm square base, 60 cm raiser with 15 and 20 mm easy detachable socket. Raiser detachable with 15 mm brass FTA sprinkler socket		Set			30
26	Portable sprinkler stand	CPVC based, 35 cm square base, 60 cm raiser with 15 and 20 mm easy detachable socket. Raiser detachable with 20 mm FTA sprinkler socket		set			30
27	SMART irrigation controller based on ESP 32 and 8266 mcu. (Operation with AC power supply only)	Web and mobile app based water management and scheduling system with 6 watering zones.					30
28	SMART irrigation controller (AC and solar power system..complete set) based on ESP 32 and 8266 mcu	Web and mobile app based water management and scheduling system, Access and control irrigation system from worldwide, Option to control irrigation system using weather parameters, Inbuilt 8 watering zones with option to add 72 additional zones, capable to control wireless Solenoid valve based on LoRa radio frequency, Capacity to control master pump of 40-50 HP, 40 Watt solar panel, 18-26 AH rechargeable battery, 10 Amp digital charge controller, with 12 X 10 cm rust-free box enclosure		set			30
29	Mini drip lines	Discharge rate 2.3 LPH, 15 cm spacing		Set			30
30	Mini drip lines	Discharge rate 4 LPH, 30 cm spacing		set			30
31	CPVC pipe	50 mm	Astral	meter			30

32	CPVC pipe	32 mm	Astral	meter			30
33	CPVC pipe	25 mm	Astral	meter			30
34	CPVC pipe	20 mm	Astral	meter			30
35	CPVC MTA	25 mm	Astral	PCS			30
36	CPVC MTA	20 mm	Astral	PCS			30
37	CPVC MTA	15 mm	Astral	PCS			30
38	CPVC MTA brass	25 mm	Astral	PCS			30
39	CPVC MTA brass	20 mm	Astral	PCS			30
40	CPVC MTA brass	15 mm	Astral	PCS			30
41	CPVC FTA	50 mm	Astral	PCS			30
42	CPVC FTA	40 mm	Astral	PCS			30
43	CPVC FTA	25 mm	Astral	PCS			30
44	CPVC FTA	20 mm	Astral	PCS			30
45	CPVC FTA	15 mm	Astral	PCS			30
46	CPVC FTA brass	50 mm	Astral	PCS			30
47	CPVC FTA brass	40 mm	Astral	PCS			30
48	CPVC FTA brass	25 mm	Astral	PCS			30
49	CPVC FTA brass	20 mm	Astral	PCS			30
50	CPVC FTA brass	15 mm	Astral	PCS			30
51	CPVC Elbow	50 mm	Astral	PCS			30
52	CPVC Elbow	32 mm	Astral	PCS			30
53	CPVC Elbow	25 mm	Astral	PCS			30
54	CPVC Elbow	20 mm	Astral	PCS			30
55	CPVC Tee	50 mm	Astral	PCS			30
56	CPVC Tee	32 mm	Astral	PCS			30
57	CPVC Tee	25 mm	Astral	PCS			30

58	CPVC Tee	20 mm	Astral	PCS			30
59	CPVC reducer	50X32 mm	Astral	PCS			30
60	CPVC reducer	32 X 25 mm	Astral	PCS			30
61	CPVC reducer	25 X 20 mm	Astral	PCS			30
62	CPVC reducer cap	50X 32 mm	Astral	PCS			30
63	CPVC reducer cap	32 X 25 mm	Astral	PCS			30
64	CPVC reducer cap	25 X 20 mm	Astral	PCS			30
65	CPVC reducer cap	32 X 20 mm	Astral	PCS			30
66	CPVC tank nipple	50 mm	Astral	PCS			30
67	CPVC tank nipple	32 mm	Astral	PCS			30
68	CPVC tank nipple	20 mm	Astral	PCS			30
69	CPVC float valve	32 mm	Astral	PCS			30
70	CPVC float valve	20 mm	Astral	PCS			30
71	CPVC ball valve	50 mm	Astral	PCS			30
72	CPVC ball valve	32 mm	Astral	PCS			30
73	CPVC ball valve	25 mm	Astral	PCS			30
74	CPVC ball valve	20 mm	Astral	PCS			30
75	CPVC gum	Medium size tin	Astral	tin			30
76	CPVC cutter	Stanley or equivalent	Astral	PCS			30
77	CPVC socket	32 mm	Astral	PCS			30
78	CPVC socket	25 mm	Astral	PCS			30
79	CPVC socket	20 mm	Astral	PCS			30
80	GI reducer tee	40X25 mm	Astral	PCS			30
81	GI reducer tee	25X15 mm	Astral	PCS			30
82	GI reducer tee	25X20 mm	Astral	PCS			30
83	GI tee	25X25 mm	Astral	PCS			30

84	GI nipple	50 mm 4"	Astral	PCS			30
85	GI nipple	40 mm 4"	Astral	PCS			30
86	GI reducer socket	50X40 mm	Astral	PCS			30
87	Thread tape	Large size	Astral	PCS			30

### Hydroponic items

1	Perforated vertical hydroponic tower	1.5 Length, 110 OD, 20 cm plant spacing		PCS			30
2	PVC pipe	110 mm dia, 3 meter length	Astral	PCS			30
3	PVC socket	110 mm	Astral	PCS			30
4	PVC Elbow	110 mm	Astral	PCS			30
5	PVC Tee	110 mm	Astral	PCS			30
6	PVC end cap	110 mm	Astral				30
7	PVC gum	1 litre		L			30
8	Premix nutrients	For leafy vegetable		Kg			30
9	Premix nutrients	For fruiting vegetables and fruits (Tomato, chilli and strawberry)		Kg			30
10	Hydroponic Netted cup	2" Diameter (black)		PCS			30
11	Oasis cubes	1" square dimension		PCS			30
12	Vermiculite	For nursery raising		Kg			30
13	Coco-peat	For nursery raising		Kg			30
14	Soilrite	For nursery raising		Kg			30
15	Water pump	1 HP, 250V AC, Single phase		PCS			30
16	Water pump	2 HP, 250V AC, Single phase		PCS			30
17	Water pump	0.5 HP 250V AC, Single phase		PCS			30
18	Aquarium water pump	240V AC		PCS			30
19	Air bubble (oxygen) pump	240V AC		PCS			30

20	SMART hydroponic controller (complete set) based on ESP 32 and Raspi-3 & 4 MCU	Web and mobile app based hydroponic monitoring and management system, Access and control hydroponic system from worldwide, Inbuilt air temperature and humidity sensors. Option to add different sensors and actuators for automation. Capacity to control master pump of 40-50 HP Max,		Set			30
21	Power relay switch	Max load 10,000 watts, single and 3 phase		PCS			30
22	Power relay switch	With Microcontroller interface		PCS			30
23	Wi-Fi DIY Smart Switch	4 independent channel with 433MHz RF remote and wi-fi. 3 working modes		PCS			30
24	Wi-Fi DIY Smart Switch	1 channel with 433MHz RF remote and wi-fi		PCS			30
25	Wifi-IoT base Temperature/Humidity thermostat	Device access through Wi-Fi network and cloud based IoT system, Temperature range: 0-100 0C, Humidity 0-100%, Output load capacity: 4500 watts max, 240V AC or DC, Logging temperature/humidity data, Built in graphical interference for data analysis		set			30
26	Rain sensor	Adjustable from 3 mm to 19 mm of rainfall, Compartable to SMART irrigation controller. Debris tolerant for reliable operation.		PC S			30

27	Pump relay switch	Max load 1-5 HP, single and 3 phase with microcontroller interface port		PCS			30
28	pH sensor module	Range 0-14 pH		Set			30
29	EC sensor module	Range 0-5000 micro semen		Set			30
30	LED grow light (Non-white light) stripe	For leafy vegetables		meter			30
31	Micro sprinkler	6 mm OD		PCS			30
32	LED grow light (Non-white light) stripe	For fruiting vegetables and fruits (Tomato, chilli and strawberry)		meter			30
33	LED grow light (Non-white light) bulb	For leafy and fruiting vegetables		Nos			30
34	Portable EC probe			set			30
35	Portable pH probe			set			30
36	Exhaust fan	240V Ac, 80 watts or 100 watts		set			30
37	Ceiling fan	240V Ac, 70 watts		set			30
38	Thermocol/Steroform	40 mm thickness		PCS			30
39	Battery operated hand set	Stanley or equivalent with two batteries		set			30
40	Hand angle cutter	Bosh type or equivalent		set			30
41	Cutter blade	For angle cutter		PCS			30
42	Exhaust fan	240V Ac, 80 watts or 100 watts		set			30
43	Exhaust fan	240V DC, 12V(Maruti car Radiator Fan)		Nos			30
44	Ceiling fan	240V Ac, 70 watts		set			30
45	Fan assisted heater	240V Ac, 2000 watts					30

#### UPVC Pipes

1	UPVC pipe	110 mm, 3 metre length	Astral	Pcs			30
2	UPVC pipe	75 mm, 3 metre length	Astral	Pcs			30



3	UPVC pipe	50 mm, 3 metre length	Astral	Pcs			30
4	UPVC pipe	40 mm, 3 metre length	Astral	Pcs			30
5	UPVC pipe	32 mm, 3 metre length	Astral	Pcs			30
6	UPVC pipe	25 mm, 3 metre length	Astral	Pcs			30
7	UPVC pipe	20 mm, 3 metre length	Astral	Pcs			30
8	UPVC end cap	110 mm	Astral	Pcs			30
9	UPVC end cap	75 mm	Astral	Pcs			30
10	UPVC end cap	50 mm	Astral	Pcs			30
11	UPVC end cap	32 mm	Astral	Pcs			30
12	UPVC end cap	25 mm	Astral	Pcs			30
13	UPVC end cap	20 mm	Astral	Pcs			30
14	UPVC tee (cross tee) 4 ways	110 mm	Astral	Pcs			30
15	UPVC tee 3 ways	110 mm	Astral	Pcs			30
16	UPVC tee 3 ways	75 mm	Astral	Pcs			30
17	UPVC tee 3 ways	50mm	Astral	Pcs			30
18	UPVC tee 3 ways	32 mm	Astral	Pcs			30
19	UPVC tee 3 ways	25 mm	Astral	Pcs			30
20	UPVC tee 3 ways	20 mm	Astral	Pcs			30
21	UPVC elbow	110 mm	Astral	Pcs			30
22	UPVC elbow	75 mm	Astral	Pcs			30
23	UPVC elbow	50 mm	Astral	Pcs			30
24	UPVC elbow	32 mm	Astral	Pcs			30
25	UPVC elbow	25 mm	Astral	Pcs			30
26	UPVC elbow	20 mm	Astral	Pcs			30
27	UPVC mta	50 mm	Astral	Pcs			30
28	UPVC mta	25 mm	Astral	Pcs			30

29	UPVC fta	50 mm	Astral	Pcs			30
30	UPVC fta	40 mm	Astral	Pcs			30
31	UPVC fta	25 mm	Astral	Pcs			30
32	UPVC fta	20 x 15 mm	Astral	Pcs			30
33	UPVC reducer socket	50 x 25 mm	Astral	Pcs			30
34	UPVC reducer socket	40x25 mm	Astral	Pcs			30
35	UPVC reducer socket	32 X 25 mm	Astral	Pcs			30
36	UPVC reducer socket	25 X 20 mm	Astral	Pcs			30
37	UPVC ball valve	50 mm	Astral	Pcs			30
38	UPVC ball valve	32 mm	Astral	Pcs			30
39	UPVC ball valve	25 mm	Astral	Pcs			30
40	UPVC ball valve	20 mm	Astral	Pcs			30
41	UPVC weilding gum	200mL	Astral	Pcs			30
42	UPVC weilding gum	500mL	Astral	Pcs			30

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