

Irrigation items supplies for the fiscal year 2023-24

SL.No	Items	Specification	Brand	Unit	Rate	Amount	Delivery schedule(Days)	Remarks
Irrigation								
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		Nos			30	
6	Venturi Injector	1" & 1 1/4"		Nos			30	
7	Proportional Injector Pump	1" & 1 1/4"		Nos			30	
8	Four Way - Multilevel Connector	6mm out and		Nos			30	
10	Two Way Connector	6mm out and		Nos			30	
11	6mm plastic Tee	6 mm OD		Nos			30	
12	6mm plastic Screwed Take-off	6 mm OD		Nos			30	
13	Stake Drip	1.5 LPH and 4		Nos			30	
14	Mini Sprinkler low angle sprinkler (US made)	Operating pressure: 15-		Nos			30	
15	Mini Sprinkler high angle sprinkler (US made)	Operating pressure: 15-25 psi, Flow rate 95 to 495 L/hr		Nos			30	
16	Inverted mini-sprinkler (US made)	Operating pressure: 15-		Nos			30	

17	Excel high angle sprinkler (US made)	Flow rate 177 to 1735 L/hr,		Nos			30	
18	Latching solenoid	25mm orifice 32mm port female BSP threads. Built		set			30	
19	Latching solenoid	50 mm orifice 50mm port female BSP threads. Built		set			30	
20	Float Switch	Output capacity: 30 HP pump max, Cable length 4 meter		set			30	
21	Irrigation filter	Filter 100 micron, Capacity 12		set			30	
22	Irrigation filter	Filter 100 micron, Capacity 25		set			30	
23	Line dripper	12mm LDPE, with 50-60 cm spacing, color		Meter			30	
24	Line dripper	16 mm LDPE, PC with 50-60		Meter			30	
25	Mini Fogger (US made)	1/4" M Barb connection		PCS			30	
26	Detachable hose Connector	15-20mm,		PCS			30	
27	Portable sprinkler stand	CPVC based, 35 cm square base. 60 cm		Set			30	

28	Portable sprinkler stand	CPVC based, 35 cm square base, 60 cm		set			30	
29	SMART irrigation controller based on ESP 32 and 8266 mcu. (Operation with AC power supply only)	Web and mobile app based water management					30	
30	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		set			30	
31	Mini drip lines	Discharge rate 2.3 LPH, 15 cm spacing		Set			30	
32	Mini drip lines	Discharge rate 4 LPH, 30 cm spacing		set			30	
33	CPVC pipe	50 mm	Astral	meter			30	
34	CPVC pipe	32 mm	Astral	meter			30	
35	CPVC pipe	25 mm	Astral	meter			30	
36	CPVC pipe	20 mm	Astral	meter			30	
37	CPVC MTA	25 mm	Astral	PCS			30	
38	CPVC MTA	20 mm	Astral	PCS			30	

39	CPVC MTA	15 mm	Astral	PCS				30	
40	CPVC MTA brass	25 mm	Astral	PCS				30	
41	CPVC MTA brass	20 mm	Astral	PCS				30	
42	CPVC MTA brass	15 mm	Astral	PCS				30	
43	CPVC FTA	50 mm	Astral	PCS				30	
44	CPVC FTA	40 mm	Astral	PCS				30	
45	CPVC FTA	25 mm	Astral	PCS				30	
46	CPVC FTA	20 mm	Astral	PCS				30	
47	CPVC FTA	15 mm	Astral	PCS				30	
48	CPVC FTA brass	50 mm	Astral	PCS				30	
49	CPVC FTA brass	40 mm	Astral	PCS				30	
50	CPVC FTA brass	25 mm	Astral	PCS				30	
51	CPVC FTA brass	20 mm	Astral	PCS				30	
52	CPVC FTA brass	15 mm	Astral	PCS				30	
53	CPVC Elbow	50 mm	Astral	PCS				30	
54	CPVC Elbow	32 mm	Astral	PCS				30	
55	CPVC Elbow	25 mm	Astral	PCS				30	
56	CPVC Elbow	20 mm	Astral	PCS				30	
57	CPVC Tee	50 mm	Astral	PCS				30	
58	CPVC Tee	32 mm	Astral	PCS				30	
59	CPVC Tee	25 mm	Astral	PCS				30	
60	CPVC Tee	20 mm	Astral	PCS				30	
61	CPVC reducer	50X32 mm	Astral	PCS				30	
62	CPVC reducer	32 X 25 mm	Astral	PCS				30	
63	CPVC reducer	25 X 20 mm	Astral	PCS				30	
64	CPVC reducer cap	50X 32 mm	Astral	PCS				30	
65	CPVC reducer cap	32 X 25 mm	Astral	PCS				30	
66	CPVC reducer cap	25 X 20 mm	Astral	PCS				30	
67	CPVC reducer cap	32 X 20 mm	Astral	PCS				30	
68	CPVC tank nipple	50 mm	Astral	PCS				30	
69	CPVC tank nipple	32 mm	Astral	PCS				30	

[illegible]

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		Set			30	
21	Power relay switch	Max load 10,000 watts, single and 3 phase		PCS			30	
22	Power relay switch	With Microcontroller		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-		PCS			30	

25	Wifi-IoT base Temperature/Humidity thermostat	Device access through Wi-Fi network and cloud based IoT system,		set			30	
26	Rain sensor	Adjustable from 3 mm to 19 mm		PCS			30	
27	Pump relay switch	Max load 1-5 HP, single and		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		No			30	

46	Ultrasonic fogger system	INPUT 250V AC Single phase , Output 40-45V DC, 8- 10 Amp 450 Watts, water proof power supply. 7-8L capacity fogging. Built- in ultrasonic floater and reservoir tank (500L) with auto water re- filling system. Fogger output hose 50 mm OD, 1.2 m height		Pcs.		30	
47	Bio-acoustic device	20 Hz to 20 KHz with the total output energy of 105 dB. With app based interfacing		Nos		30	

48	Smart temperature and Humidity sensor	LCD-zigbee interface		Nos.		30	
49	RF switch8	433Mhz 8 channel with microcontroller interface		Nos.		30	
50	RF switch 4	4 ch with microcontroller interface				30	
51	Wifi based Smart irrigation controller	4 independent channel with 433 MHz RF channel support		set		30	

52	Smart irrigation controller	Inbuilt 8 watering zones with option to add 72 additional zones.40 Watt solar panel, 18-26 AH rechargeable battery, 10 Amp digital charge controller, Web and mobile app based water management and scheduling system	Set				30	
53	Poly Compression Tee 20mm			No			30	
54	Poly Compression Tee 25mm			No			30	
55	Poly Compression Tee 32mm			No			30	
56	Irrigation Filter 6m3	Filter 100 micro, Cap 6 M3/hr		No			30	
57	Dripkit Set 250m2	250sqm 30cm spacking		No			30	

58	Dripkit Set 500m2	500sqm 30cm spacking		No			30	
59	AC split system 1 tons hot and cold	1 Tone hot and cold		No			30	
60	AC split system 1.5 tons hot and cold	1.5 Tone hot and cold		No			30	
61	AC split system 2 tons hot and cold	2 Tone hot and cold		No			30	
62	Micro Sprinkler	6mm OD, Full Circle		No			30	
63	Micro Sprinkler	6mm OD, half Circle		No			30	
64	Air release valve continus	25mm Threaded inlet, c		No			30	
65	Hot callusing pipe	75mm dia with inbuilt heating and insulation and connectors. Material UPVC or PVC, length 3 meter		No			30	
66	Fertilizer injector	Proportional Injector Pu		No			30	
67	Plastic filter	12 M cube flow rate		No			30	
68	Clay balls			Kg			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	