بسم الله الرحمن الرحيم

ދިވެހިރާජެއް ތެރެ ބަންދުކުރެއް ބާއްވައި ވަކިވެދާ ވަކިވެދާ

ފާރު، ދިވެހިރާއްޖެ

ބަންދުކުރެއް ކަމުގައި

ދ ދިވެހިރާජެއްގެ ވަނަބައިން ތާރީخުގެ ބަންދުވެގެން ވަކިން ވަކިން ވަކިކުރުން ބޭނުންކުރާ
ބަންދުން ހުއިން، ބަންދުން ހިންދައިދާ ބަންދުކުރެއް ކުރުމަށް ބަދަލު ތެރެ 5 ބަދަލުން
ކުރިއަށްދާނެ ވަގުތުން ހުއިން ބަންދުގެ ބަސްބަދަން

ތާریخ: 03 ދެސްން 2024 (ހުކު)

ވަގުތު: 13:00

ރިފަންސްން ނަންބަރ: (IUL)492-PS /492/2024/79

ބަންދުކުރާ ބަންދުތަކުން ގެނުން ނަންބަރ: 3339279, 3339282

بسم الله الرحمن الرحيم

ދިވެހިރާજ્ય ઉષ્ણકટિબંધ કૃષિ વિભાગ

ઉષ્ણ, ભેજવાળું

ડેસ્કટોપ ડેટાશીટ

1. ડેસ્કટોપ ઉત્પાદનો

1.1 ઉષ્ણકટિબંધ ફળદ્રુપતા ધરાવતા ટાપુઓ પરના ખેતી વિસ્તારો, નીચે જણાવેલ 5 ટાપુઓ પર ડેસ્કટોપ ઉત્પાદનો

1.2 નીચે જણાવેલ ડેસ્કટોપ ઉત્પાદનો જરૂરી છે.

Information Sheet – Vertical Farming Items

The items mentioned below in Table 1 (1 set) must be delivered to each of the 5 islands mentioned below.

1- R.Hulhudhuhfaaru
2- N.Kendhikulhudhoo
3- Lh.Naifaru
4- Th.Kinbidhoo
5- (An island in AA.Atoll)

Table 1: (The items with quantity is for 1 island)

Amount	Item / Specifics	Remarks
4	Aeroponic Tower System Scope: 16 Towers (Each tower with 15 sections, each section with 4 planters, with a drain end compatible to 4-inch fittings), connection rods, white net pots for planters,	16 towers will be arranged in 2 rows, 8 towers in each row. 16 Towers should sit on a connected drainpipe, drainpipe connected to the solution tank just outside the greenhouse.

		Towers should be rigid enough when assembled, to be able to stand on its own (without tilting)
150	Feet flexible pipe 9mm (as water inlets for towers)	Water inlets for towers, to be connected into 1” PVC pipe
12	PVC Pipe 4”	Medium pressure
2	PVC Pipe 2”	
12	PVC Pipe 1”	
12	PVC Pipe ½”	
72	PVC Tee 4”	Must be compatible to the provided pipes
10	PVC Cap 4”	
10	Elbow 4”	
4	Reducer 4”-2”	
64	PVC Tee ½”	
8	PVC Union 1”	
24	PVC Elbow 1”	
8	PVC Valve Socket 1” (male threaded)	
8	PVC Ball Valve 1”	
4	PVC Foot Valve 1”	
4	Water Pump 1” Specs: Voltage: 220V H· min: 3m Q· max: 50 L/min Suct H: 8m H· max: 32m Continuous duty	
5	Tank with lid 500L	
12	Pineapple Grow Tower 96 Planter; Height: 80 inches, Levels: 12 Pump: fittings submersible pump - 2500 L/H, Water Tank size (at the base of the tower): 30Ltr	
7	Electric Sequential Timer On Time: 2 Min OFF Time: 15, 25, 35, 45 Min 230VAC, 50Hz, 150W	
1	Submersible pump Specs: Voltage: 220V, H-max: 2·5m, Output: 2500L/H	
30	Feet PVC Braided Hose Pipe, green or blue	Submersible pump outlet must fit into this hose
8	Weatherproof 3 pin (UK) single socket switch	With junction box
8	Electric Top, 3 pin UK	
7	Weatherproof Electrical Socket Junction Box	Box only
1	Hydroponic Seedling Tray 120x120x12cm	Tray must not have drain holes

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4	Slotted Angle Bar 1-1/2 x 1-1/2 x ~2mm x 10ft / length (Black)	
20	Full Threaded Bolt with Nut 1½ inch	
30	Meter Electric Wire 2·5sq/mm, Red	
30	Meter Electric Wire 2·5sq/mm, Black	
30	Meter Electric Wire 2·5sq/mm, Green	
1	Standard Double Door SPN Distribution Board	
2	Tank 5000L	For water Harvesting
6	PVC Pipe 2½", medium pressure	
6	PVC Elbow 2½"	
4	PVC Tee 2½"	
4	PVC Ball Valve 2½"	

The items mentioned below in Table 2 (1 set) must be delivered to Hanimaadhoo Agriculture Center.

Table 2: Items to deliver to Hanimaadhoo Agriculture Center

Amount	Item / Specifics	Remarks
2	Aeroponic Tower System Scope: 10 Towers (Each tower with 15 sections, each section with 4 planters, with a drain end compatible to 4-inch fittings), connection rods, white net pots for planters,	
70	Feet flexible pipe 9mm (as water inlets for towers)	Water inlets for towers
6	PVC Pipe 4"	Medium Pressure
1	PVC Pipe 2"	
6	PVC Pipe 1"	
6	PVC Pipe ½"	
22	PVC Tee 4"	Must be compatible to the provided pipes
5	PVC Cap 4"	
5	Elbow 4"	
2	Reducer 4"-2"	
20	PVC Tee ½"	
4	PVC Union 1"	
10	PVC Elbow 1"	
4	PVC Valve Socket 1" (male threaded)	
4	PVC Ball Valve 1"	
2	PVC Foot Valve 1"	

2	Electric Water Pump 1” Specs: Voltage: 220V H· min: 3m Q· max: 50 L/min Suction H: 8m H· max: 32m Continuous duty	
2	Tank with lid 500L	
4	Pineapple Grow Tower 96 Planter; Height: 80 inches, Levels: 12 Pump: fittings submersible pump - 2500 L/H, Water Tank size (at the base of the tower): 30Ltr	
3	Electric Sequential Timer On Time: 2 Min OFF Time: 15, 25, 35, 45 Min 230VAC, 50Hz, 150W	
1	Submersible pump Specs: Voltage: 220V, H-max: 2·5m, Output: 2500L/H	
30	Feet PVC Braided Hose Pipe, green or blue	Must be compatible to the supplied submersible pump outlet
4	Weatherproof 3 pin (UK) single socket switch	With junction box
4	Electric Top, 3 pin UK	
30	Meter Electric Wire 2·5sq/mm, Red	
30	Meter Electric Wire 2·5sq/mm, Black	
30	Meter Electric Wire 2·5sq/mm, Green	
3	Weatherproof Electrical Socket Junction Box	Box only
2	Hydroponic Seedling Tray 120x120x12cm	Tray must not have drain holes
4	Slotted Angle Bar 1-1/2 x 1-1/2 x ~2mm x 10ft / length (Black)	
20	Full Threaded Bolt with Nut 1½ inch	

Green House requirements

Kindly note that the Greenhouse must be delivered to 5 islands mentioned below.

1- R.Hulhudhuhfaaru
2- N.Kendhikulhudhoo
3- Lh.Naifaru
4- Th.Kinbidhoo
5- (An island in AA.Atoll)

Minimum Specifications – Greenhouse for vertical farming demonstrations

Criteria	Preferred Specs	Comments
Purpose	Hydroponics/Aeroponics/ Vertical farming	
Target crop	Multiple Vegetables and Herbs	Eg; Dwarf chili, leafy greens, and herb mix
Greenhouse Area	Total greenhouse area approx.: not less than 1000 ft^2	
House size	houses of W- 30feet x L- 90feet x H- 9 feet (measured from inside the house)	Top height from ground:13-14 feet, Height to crossbar from ground: 9 feet
Greenhouse model	Umbrella Roof Vent Single Span Greenhouse for Tropics Hydroponic Growing	
Roof Model	symmetrical with Mesh 40 (16x10) netting (small side roofing (HDPE, UV Stabilized).	Most suitable for tropical climate
Ventilation	Durable UV stabilized 40-50 mesh insect proof net	Most suitable for tropical climate and low energy use.
Roof cover	Durable UV stabilized Polythene 200microns	Durability prioritized
Side/Perimeter	Insect net, HDPE Monofilament, UV stabilized, 0.22 thread diameter, high strength, Mesh 50 (20x10)	Removed polythene in favour nets to prioritize air movement and temperature regulation
Exclusion / double Entrance	Exclusion Entrance for each house with steel structure, 40 mesh insect net, door closer.	
Structure	Hot galvanized steel with foundation	Minimum standard
Installation	by supplier	(excludes clearing of field/ some levelling may be necessary)
Roof gutter and corner profiles	Steel corrosion resistant	Refer to sample pictures
Other materials	Corrosion resistant	Whole structure
Paint	Paint all metal structure with Corrosive and climate resistant material	
Foundation	Concrete foundation	

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Sample picture (without reinforcement bars and trellising bars)

Structural changes that may be needed due to absence in prefabricated/ readymade greenhouse structures.

1. Decreasing the height of greenhouse to 9 feet
2. Adding four stainless-steel pipes (one pipe to each segment) at the back and front of the greenhouse diagonally to make the structure more rigid.
3. Strengthening the foundation to 1.5 feet underground.
4. adding 8 stainless-steel pipes on top for trellising.
5. To add double doors (the outer door should open to outside, there should be space between the outside and inside door)

Example of double door

2. ތަންދާ ހިންގުން ކުރުން ބަންދުކުރުން

2.1 ތަންދާ ހިންގުން ހުއިވަން ތާریխ: 03 ދެސްން 2024 ވަގުތު: 13:00

2.2 ތަންދާ ހިންގުން ތަނަ ބަންދުކުރުން: **ދިވެހިންނަށް ބާވަ ތެރެއިން ތަން ތިރުވައިދިން ؛ ؛ ؛

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3.14 ،ﷺﷺﷺﷺ ،ﷺﷺ ،ﷺ. (،ﷺ،ﷺ،ﷺ ،ﷺﷺﷺﷺ ،ﷺﷺﷺ ،ﷺﷺﷺ ،ﷺﷺﷺ، ،ﷺﷺﷺ ،ﷺﷺﷺﷺ ،ﷺﷺﷺ، ،ﷺ

5.2 · ތަރުތީބު ކުރެވިފައިވާ ބިލުތަކުން ބިލުތަކުން ބިލު ތަރުތީބު ކުރެވިފައިވާ ބިލުތަކުން ބިލުތަކުން ބިލު ތަރުތީބު ކުރެވިފައިވާ ބިލުތަކުން ބިލުތަކުން ބިލު ތަރުތީބު ކުރެވިފައިވާ ބިލުތަކުން ؛ ބިލުތަކުން ؛ ؛ ؛

9. ڤًرڤًدَرْسْ ءْنْرْشْڤٍ.

9.1 ڤٍچَرْدَرْ رْسَرَرَڭً هَرَبٍ 500,000.00 (ڤَسْچَرْهَرْ) ءْرِڤًهَرْدَرْڤْرْ دَمِيءْ هَرْءْهْسَرَدَ ڤٍچَرْ ءْدِڤًهْدْبَرِ ڤَرَڭًمْدْسَ سَءْرْبًرْ ڤْدْڤْدْبَرْ ڤْسْرْبَرْسْ سْرْوَمَ ڤِرْءْرِڭًهْڤْدَمِ ڤْمِدْبْرْءْرِوڤَرِوً ڤَرِسْسْڤَرْ هِسْسْڤٍڤِدْهَدْسْ حِ ءْبْرْڤْبْهَرْ ڤْرْبْرْڤَرِوً سْءِبِدْبِرِڤٍدْهْ رْسَرَرَءْسْرْوًسْدْهْ. (03 وَسَرَ دًهْڤًرْءْ 3.7 ءَرِوً ءْمَرْ).

9.2 ڤًرڤًدَرْسْ ءْنْرْشْڤٍءْ دْهْدَرَمْ، هْدْهَسْءْدْدْءَرِ سْءْرِبْرْڭً ڤًبِرءْسْ ءْبِرِءْسْ دْءِ دَسَهْبَرْهْءْ دْهْدَرَمَرْدْءْرْ بْرْدْدْهْدَرَمَرْ ءْءْسْرْدْوًسْدْهْ. ڤًرڤًدَرْسْ ءْنْرْشْڤٍ رْسَرَڭًمِءْبِرَدَ هْءْڤًسٍ دَسَهْبَرْهْ رَوًڤْرْبْرْدَرْ هْڤٍڤًسٍ دَسَهْبَرْهْ رَوًڤْرْدٍبَرَدَرْهْ.

9.3 ڤًرڤًدَرْسْ ءْنْرْشْڤٍ هْءْرْهْڤْدَرْ ڤٍچَرْ ءْدِڤًهْدْبَرِ ڤَرَڭًمَرْ ڤَرْوً دْهْدَرَمْءْدَمِ ڤًرڤًدَرْسْ ءْنْرْشْڤٍ سْرْهَءْرَهْمِءْبِرَدَ، دِدَسَهْبَرْهْ رَوًڤْرْبْرْدَرْ سِرْسْڭًدْسْ هًڤِڤْ بْرْدَرْسْءْرْ، هْءْرَڭًمْدْسْ رْسَرَرَڭًءْرِوً ڤٍءْ سْءِبِدْبِرِڤٍ ڤَرْدْرَمَرْ سْرْءْسْرْهْءْ.

10. ڤٍچَرْ هِرَءْرْهْڤْهْبْرْءْسْرْءْڤْ هَرِ ڤٍچَرْ هْءْڤْءْ بْرْدْسْ.

10.1 حِ دَسَهْبَرْهْرْ ڤٍچَرْ رْسَرَرَڭً ڤَرْڤْمَرْءْ هِرَءْرْهْڤْهْبْرْءْسْرْءْڤْ ڤٍچَرْمَرْ هْءْڤْهْبْرْءْسْرْ رْبِرڭً هَرِهْچَرْدَرْ هْءْبْرْءْ.

10.2 ڤٍءْ بْرْدِڤٍسْ حِ دَسَهْبَرْهْ هْءْڤْءْ بْرْڭًسْ ڤَرْڤْمَرْ بَسءْهْءْدْسْ هْبَرْسْ ڤٍچَرْ بْرْدِڤًهْ بْرِ ڤَرْڤْمَرْ هْسْءْبْرْهْءْ. هَرِ سْرْبْرْءْ ڤَرْڤْمَرْءْبَرْ 5 (ڤَرْبَرْ) ڤْرْءْرَرْءْ دْرْبْرَرْمَرْ سْءْبْرْءْ رْسَرَرْءْدَرْ ڤِڤْسْرْهْءْ. دِدْهْدَرْمَرْءْ ءْمْبْرْءْدَمِ هْءْهْءْسْ ڤَرْڤْمَرْبْرْ سْءْبْرْءْمَرْ رْسَرَرَڭًءْرِ سْرْءْسْرَدَ هْءْڤْءْ بْرْدْءْسْ ڤَرْڤْمًمِهْبْرْ هْءْهْسْءْدْسْ رْءِرِ دَسَهْبَرْهْ رَوًڤْرْبْرْڭًسْرْهْءْ.

11. ڤٍچَرْ هِءْڤْهْبْرْءْڤْ بْرْدْدَرْ ڤْسْرْسْ بْرْڭًسْ دِسْرْدَسءْ

11.1 ڤٍءْمَرْ هِءْڤْهْبْرْءْڤْ بْرْدْدْءَرِ دِڭْءْرْسْ ڤِرْءْرِوً بِرْبْهَرْدْسْڤَرْ ءْڤْمْڭًهْبِرِ ءْبِرِرَدَ بْرْمَرْڤْءْ دَدْءْدْڭًدْمَرْهْ ءْبِرِرَدَبْرْءْرِ ءْڭْ ڤْءْدَرْسْءْرْ بِرْبْهَرْدْسْڤَرْ سْرْءْڭً سْرْوَمَ ءْبِرِرَدَ سْرْوً ڤٍءْمَرْهْ ڭًڤِڤْ بْرْءْرْسْءْهْءْ.

دَسَهْبَرْهْءْ هَرَسْ 70 (رَمْڤِرَ) ڤْرِمْسْڤْ:
دَسَهْبَرْهْءْ هَرَسْ ڤْرِمْسْڤْ ڤِرْسْدْءَرِ ڤْڭْبِرْ هْسْدْ بْءَ هَءْ رْسَرَرَڭً ڤَرْڤْمَرْبْرْ ءِسَ ڤْرِمْسْڤْ ڤِڭً هْسْڭْدَرْبْرْسْءْ. **هَءْ (رْسَرَرْءِ هْسْدْ رْهْڭْ هَءْ / رْسَرَرْءْ ڤَرْڤْمَرْءْ هَءْ × 70)**
مَرْڤْبِرڭًهَرْ 30 (ءِبِرِسْ) ڤْرِمْسْڤْ
مَرْڤْبِرڭًهَرْ ڤْرِمْسْڤْ ڤِرْسْدْءَرِ ڤْڭْبِرْ دَسَهْبَرْهْ بْرْءْرِوً مَرْسْمَرْسْرْ ڤِرْءْرِوً مَرْسْءْ ءِرْهْرْمَرْبْرْ هَءْرِءْسْءْ. هْءْڭْمْرْ هْءِرْهْدَرِ دَسَهْبَرْهْ سِرْسْدِ بَدْءْ ءِرْهْدَرْبْرْ ڭًسْڭًسْءْ. هَرِ هْ ءِرْهْدْءَرِ بْرِ دَسَهْبَرْهْءَرِ، دَسَهْبَرْهْ رَوًڤْرْبْرْدْسْ ڭًبِرْءَرِ، دَسَهْبَرْهْءْ دْهْدَرَمْ هْءْسْ هْڭْدَرِ (دْهْدَرَمْ سْرْوَمَ دَسَهْبَرْهْ سِرْسْدَڭًءْبْ ڭًبِرْءْ سْرْوَمَ دَسَهْبَرْهْ سِرْسْدِ ڭًبِرْءْ هْڭْمْسْ) هَرِ دَسَهْبَرْهْءْ دْءِ ڭْڭْءَ هَءْ هْءْسْهْڭْسْرَسْ ڭًسْءْ. هَرِ هْءْرَ ءِرْهْدْ ڭًسْڭًسٍ حِ هِدْڭًسْرِ دْءِءْسْ بْرَسْڭًبْ دَسَهْبَرْهْرِ دْءْسْدْبِرِ ءِرْهْدَرْءْ. هَرِ ءِسَرْءْسْ هَڭًسٍ 10 ءِرْهْدَرْءْ.
مَرْڤْبِرڭًهْ ءِرْهْسْمَرْبْرْ ڤْرِمْسْڤْڭْبِرِ هَسْسَرِبِرِ ڭًمَرْءْ.
رْسَرَرَڭًءْرِوً ءِرْهْسْمَرْبْرْ هَرَڤَرْ 15 (ءَسَرَ) ڤْرِمْسْڤْ **(رْسَرَرْءِ ڤَرْڤْمَرْ رْسَرَرَڭًءْرِوً ءِرْهْسْمَرْبْرْ هَرَڤَرْ / هْسْدْ ءِسَرِمْ رْسَرَرَڭًءْرِوً ءِرْهْسْمَرْبْرْ هَرَڤَرْ × 15)** رْسَرَرَڭًءْرِوً ءِرْهْسْمَرْبْرْ ڤْڭْءَ هَءْرَ 15 (ڤَرْبَرْ) ڤْرِمْسْڤْ **(رْسَرَرْءِ ڤَرْڤْمَرْ رْسَرَرَڭًءْرِوً ءِرْهْسْمَرْبْرْ ڤْڭْءَ هَءْ / هْسْدْ ڭًءْ هَءْ × 15)**

بسم الله الرحمن الرحيم

ދިވެހިރާއްޖެ ބަންދުކުރުމުގެ ބަންދުކުރުން ؤދިވެ ؤ ؤ ؤ ؤ

ފާދُ، ދިވެހިރާއްޖެ

ބަންދުކުރުން 1 - ހަކަވަން ދިވެހިންގެ ބަންދުކުރުން

#	ބަންދުކުރުން	ބަންދުކުރުން ✓ ✗	ދިވެހިންގެ ވަކި ✓ ✗
1	ބަންދުވެ ހަކަ ؤ ؤ ؤ ؤ		
2	ބަންދުކުރުމުގެ ކުރިން ؤ ؤ ؤ ؤ (ދިވެހި ؤ ؤ ؤ ؤ)		
3	ؤ ؤ ؤ ؤ

بسم الله الرحمن الرحيم

ދިވެހިރާජ އެފ އެންބެލަންސަސް ތެރެއިން ތަރައްގީ ވަންދެން

ފާރާ، ބެލެހެއްޓުން

ބަންދުވެ 2 - ތަންދިން ހިންގި ހުވަން ހުވަން ؟

ތަންދިން ހިންގި ބަންދުގެ
ބަންދުވެ/ ކުންފަތުން ކަން:
ތާریխ ކަންކަން:
ހުވަން ؟ ؟ ؟ ؟

ތަންދިން ؟ ؟ ؟ ؟ ؟ ؟ ؟ ؟
؟ ؟ ؟ ؟ ؟	؟ ؟ ؟ ؟ ؟ ؟ ؟ ؟ ؟	؟ ؟ ؟ ؟ ؟ ؟ ؟ ؟	؟ ؟ ؟ ؟ ؟ ؟ ؟ ؟ ؟

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