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किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद

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भा.कृ.अनु.प.-केन्द्रीय आलू अनुसंधान केन्द्र
(भारतीय कृषि अनुसंधान परिषद्)
सहाय नगर, पटना 801 506, बिहार, (भारत)
ICAR-Central Potato Research Station
(Indian Council of Agricultural Research)
Sahay Nagar, Patna 801 506, Bihar (India)



No.F.STR-109/Aeroponics/PT/2016-17/

Dated: August, 2016

QUOTATION

Please quote your rates for the supply of following items as per detail specification (Annexure-I) and terms and conditions given under:

Sl No.	Particular	Units	Price (Rs.)
1.	Small Aeroponics Boxes	02 No.	

Annexure-I

Specification for small Aeroponic boxes

Structure : 65 x 65 x 100 cm (L x W x H outer dimensions)

This structure will have two parts;

- A. Upper part will be plant growth chamber
- B. Lower part as parts housing chamber

Structure will be made from square 13 mm MS pipe as shown in diagram

Plant growth chamber

Over all outer dimensions - 65 x 65 x 45 cm (L x W x H)

Inside the steel structure a box made of **styrofoam sheet** of thickness 30-50 mm, will be fitted. This will be lined with 150-200 micron thick black polythene sheet.

Top of the box will have holes (14x14 cm) of diameter 15-20mm which will be counter sunk 20 mm deep and 40 mm wide from lower end. This top will be covered with white soft flex sheet with extension of 10 cm to all the sides.

As shown in fig 2, drain system and two **non metallic** (preferably ceramic) nozzles with inbuilt screen filter will be provided in the box for spraying of water. Nozzles will be hollow cone, 80-100 degree having discharge of 30-35 lph.

A glycerin filled pressure gauge will be provided in the supply line

Pump

Pump with specifications of 19x19 mm, 92 watt (Usha make or any other make with similar specifications), 1500 lph at 3m head and 600lph at 15 m head will be installed in the lower box as shown in schematic diagram.

Solution tank and accessories

PVC container of 5-7 liter capacity with open top will be installed in lower box in which solution after spraying in growth box will drain back.

Pump will be attached to this tank through a 70-100 micron filter.

Ball valves as indicated in diagram will be provided.

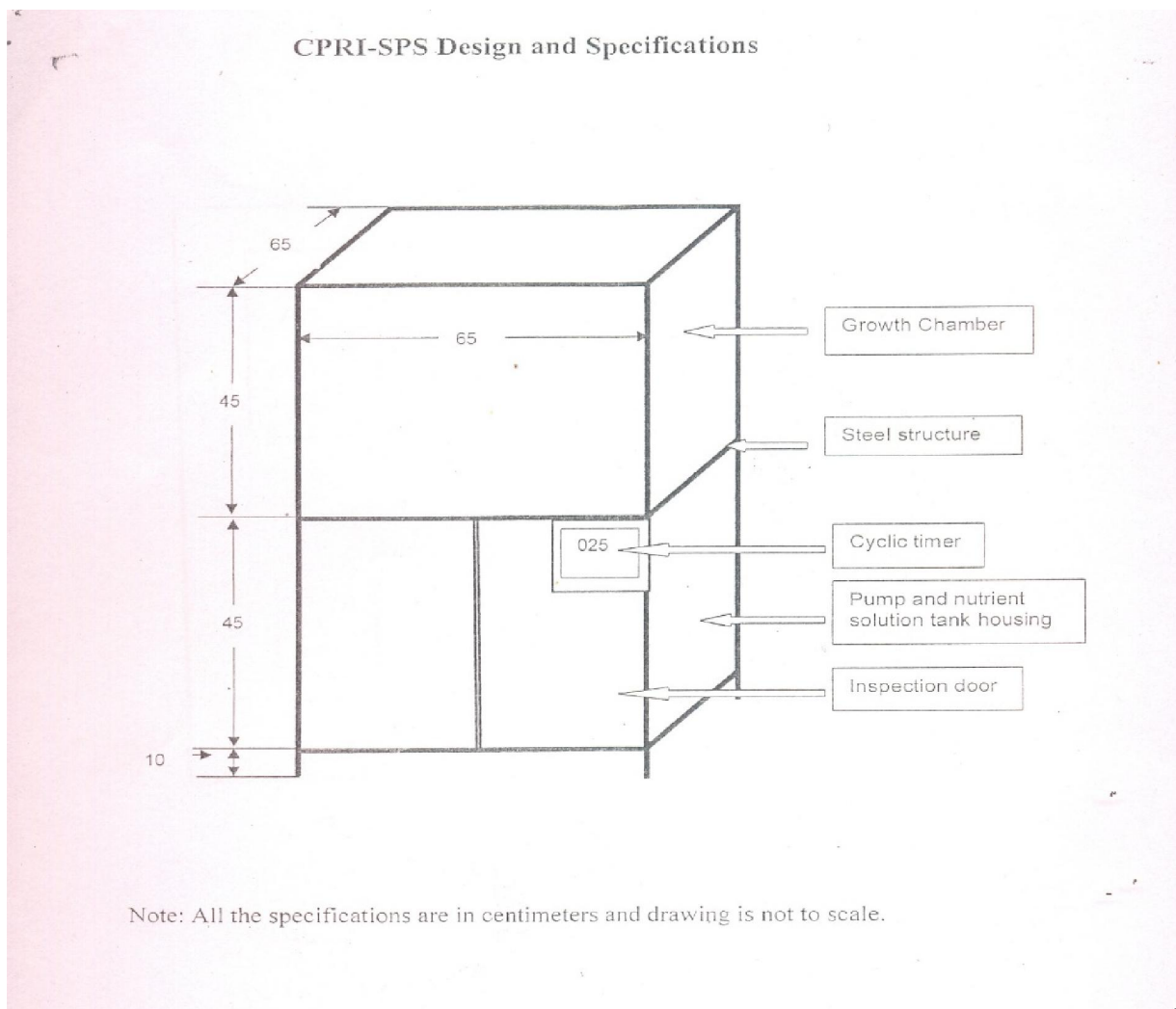
Sequential timer and electrical connections

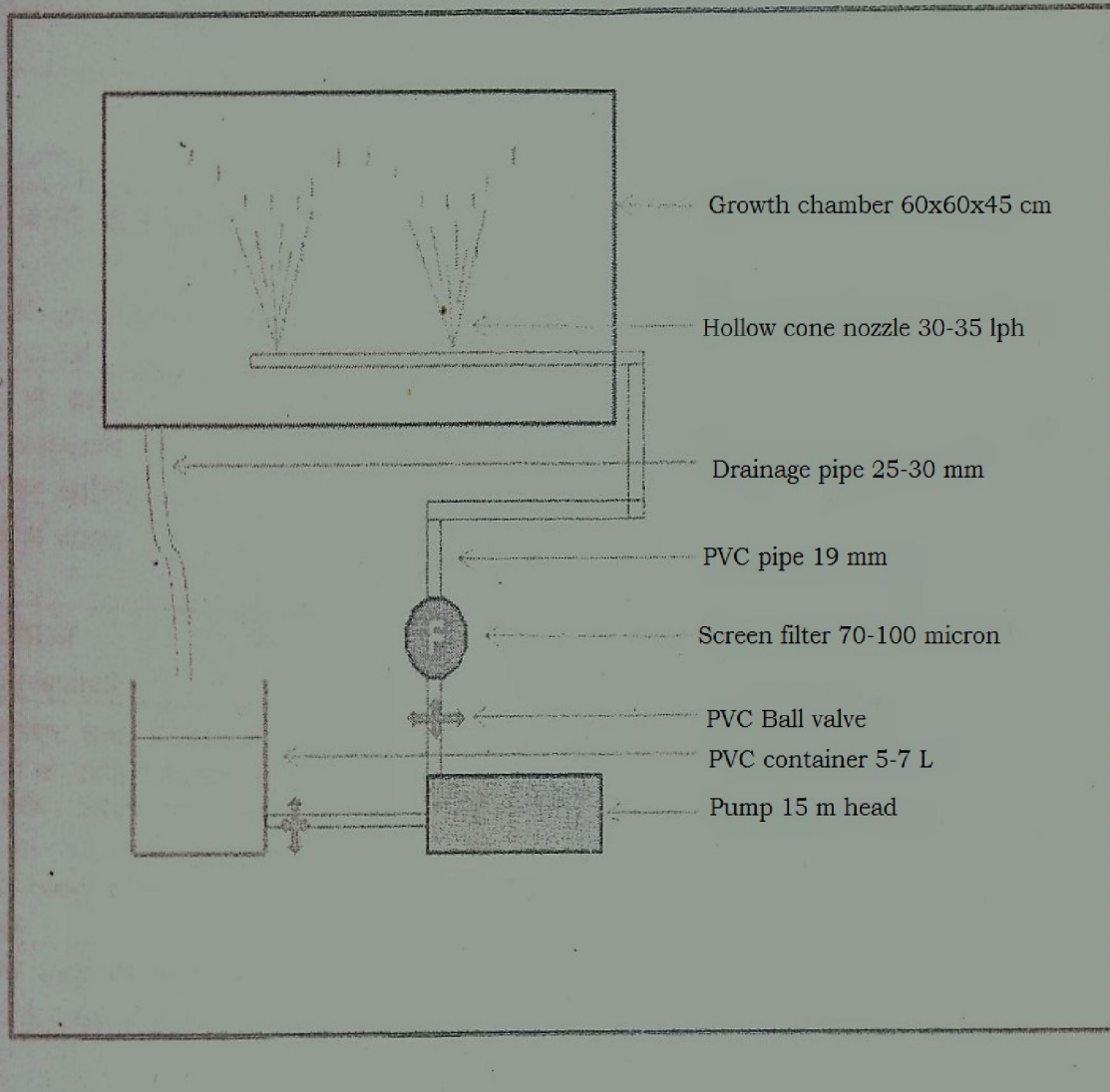
A sequential timers (four digits) good for 3-4 amp of load for operating pump for misting will be installed as show in dig. On time and off time may vary from 1-50 sec and 1-60 min. respectively.

Electrical connections for single phase operations through MCB and indicator bulbs will be made as per requirement.

Note

1. Except pump and outer structure all the part will be of non metallic materials.
2. During fabrication technical help in terms of material selection and fabrication can be sought from CPRI.
3. Design of this system will not be passed on to any firm/individual without the permission of CPRI. For this firm will have to give an undertaking in writing.





1. The quotation should be submitted in a sealed cover under superscription **“Purchase of Small Aeroponics Boxes” due on 5th September, 2016.**
2. The quotation should reach this office by 2.00 PM on 05.09.2016, otherwise it will not be considered.
3. Quoted rates must be inclusive of loading, unloading & all taxes/ other incidental charges.
4. **Delivery F.O.R destination, CPRS, Patna.**
5. The C & D/Suvidha Number for entry in Bihar will not be issued/provided by the Institute.
6. Cuttings and over writing, if any, may invariably be initialled.
7. The Institute reserves the right to reject the quotation without assigning any reason.
8. The condition of advance payment will not be acceptable as the Institute normally make the payment within 30 days on receipt of ordered material in good condition/completion of work satisfactorily.
9. The items quoted should be of good quality with warranty, if any, given by the manufacturers.
10. The quantity mentioned above is tentative, which can be increase & decreased at the time of placement of supply order.
11. ***The quotations will be opened on 5th September, 2016 at 3.00 p.m.***

Head
CPRS, Patna