



**EASTERN UNIVERSITY, SRILANKA
VANTHARUMOLAI**

**BIDDING DOCUMENT
PROCUREMENT OF WORKS**

Faculty of Agriculture under AHEAD Project

MINOR CONTRACT

For
Accelerating Higher Education Expansion and Development Operation
(AHEAD)

Name of Work:

Faculty of Agriculture under the ELTA-ELSE Project

Supplying, Installation and Handing Over of Net House with
Hydroponics and Mist Propagator System at the University Farm,
Faculty of Agriculture, EUSL

Contract No. EUSL/AHEAD/AGI/10/II

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VOLUME I

Consist of,

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of Standard Bidding documents for Procurement of Works {(ICTAD/SBD/03), second edition – January 2007} Approved by National Procurement Agency (NPA) and Institute for Construction Training and Development (ICTAD). This publication shall be available for reference at the **Vice Chancellor, EUSL, Vantharumoolai**, and for purchase from Institute(insert name of the District) for the Construction Training and Development (ICTAD) “Sauvsiripaya”, 123, Wijerama Mawatha, Colombo-7

VOLUME II

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Invitation for Bids (IFB)

Eastern University, Sri Lanka

Invitation for Bids (IFB) National Competitive Bidding (NCB)

Accelerating Higher Education Expansion and Development Operation (AHEAD)

The Chairman, Project Procurement Committee, Operational Technical Secretaries(OTS), AHEAD Operations on behalf of Eastern University, Sri Lanka will receive sealed bids from interested eligible and qualified bidders for the work mentioned below and receiving will be closed at 2.00 pm on 05.05.2022 Bidding documents shall be obtained from Director/OTS/AHEAD-Project up to 04.05.2022 at OTS Office, Eastern University, Sri Lanka.

No	Name of Work Under Faculty of Agriculture	Required CIDA Grade & Specialty	Constructi on Cost Excluding VAT (LKR)	Cont ract Perio d (in Mont hs)	Non- refundable fee. (LKR)	Bid Validit y Period	Bid Security	
							Amount (LKR)	Validity from the closing date
02	Supplying, Installation and Handing Over of Net House with Hydroponics and Mist Propagator System at the University Farm <i>Contract No. EUSL/AHEAD/AGI/10/II</i>	C8 & C7 (Building)	2,365,657.0 0	02	1,000.00	63 Days	23,700.00	91 Day

- Bidding will be conducted through National Competitive Bidding *single stage single envelop system*. Since the total cost of estimate of this Procurement is above Rs.50 Mn., regional preference and CIDA grade preference shall apply as stipulated in Public Finance Circular No.04/2016(ii). Dated 08.05.2019.
- To be eligible for contract award the successful bidder shall not have been blacklisted and shall have the required valid CIDA registration as mentioned above in the table.
- A completed set of bidding documents in English Language may be purchased by interested bidders on the submission of a written application by Bidder himself or by bidders' representatives to the address Deputy Director, Procurement, OTS AHEAD Operations, Eastern University, Sri Lanka and upon payment of non-refundable fee as stated in the above table, from 9.00 am to 3.00 pm up to 04.05.2022. The mode of payment shall be either in cash or bank draft in favor of "AHEAD Project, Eastern University, Sri Lanka".
- The Bidders can also download the bidding documents from the University Website i.e. www.esn.ac.lk. Those who are obtaining bidding documents from the University Website should submit the completed documents along with a Bank Draft drawn in favor of the "AHEAD Project, Eastern University, Sri Lanka" as stated in the table for as non-refundable fee or the payments could be made at any branch of the Bank of Ceylon to the credit of Account No 82845710 Eastern University, Sri Lanka and the deposit slip should be attached with the original Bidding documents.
- Bid must be accompanied by bid security and validity as mentioned in the table in favor of **Vice Chancellor, Eastern University, Sri Lanka** issue by any commercial bank operating in Sri Lanka approved by the Central Bank of Sri Lanka or Construction Guarantee Fund.

6. Bids in two copies indicating in Original and Duplicate, must be delivered to the address given below on or before **14.00 hour on 05.05.2022**. Late bids will be rejected.
**Deputy Director/Procurement, OTS/AHEAD Project,
Office of the Registrar, Senate Building,
Eastern University, Sri Lanka, Vantharumoolai, Chenkalady.**
7. Bids will be opened immediately after the closing time at the above address.
8. Bidders or their authorized representatives are requested to be present at the opening of Bids.
9. Pre-Bid meeting will be held on **27.04.2022** at **10.00am** at Faculty of Agriculture, Palacholai, EUSL.
10. Interested bidders may obtain further information from the **Deputy Director/Procurement** or **Works Engineer** of Eastern University, Sri Lanka at Chenkalady during any working days during office hours from 9.00hrs to 15.00hrs. [**Deputy Director/Procurement, - OTS (AHEAD) – 0652059393, Deputy Director-Engineer- 065 2240582, 026-2222016, Fax No: 026-2222005, 0652059393 e-mail: buildings@ep.gov.lk**].
11. Any changes in the above due to the prevailing COVID 19 pandemic situation will be published in the University website ‘www.esn.ac.lk’.
12. The decision of the Project Procurement Committee is final and conclusive.

**The Chairman
Project Procurement Committee
Eastern University, Sri Lanka
Vantharumoolai
Chenkalady.
10.04.2022**

Section – 4

**FORM OF BID AND QUALIFICATION
INFORMATION**

FORM OF BID

Bid for: Supplying, Installation and Handing Over of Net House with Hydroponics and Mist Propagator System at the University Farm, Faculty of Agriculture, EUSL

Gentleman,

1. Having examined the Standard Bidding Document – Procurement of Works – Minor Contracts (ICTAD/SBD/03 –Second Edition, January 2007), Schedule, Specifications, Drawings and Bills of Quantities and addenda for the execution of the above-named Works, We / I the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the aforesaid Conditions of Contract, Schedule, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Sri Lankan Rupees(LKR) or such other sums as may be ascertained in accordance with the said Conditions.
2. We / I acknowledge that the Schedule forms part of our Bid.
3. We / I undertake, if our Bid is accepted, to commence the Works as stipulated in the Schedule, and to complete the whole of the Works comprised in the Contract within the time stated in the Schedule.
4. We / I agree to abide by this Bid for the period stated in the Sub-Clause 15 of Instructions to Bidders or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us / me.
6. We / I understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this day of 202.... in the capacity of duly authorised to sign tenders for and on behalf of

(IN BLOCK CAPITALS)

Signature:

Address:

Witness:

QUALIFICATION INFORMATION

(to be completed by the bidder and submitted with the Bid)

	Eligibility Requirement	Bidder's Qualification
ICTAD Registration		
Registration Number		
Grade	C8&C7	
Speciality	-	
Expiry Date	Valid ICTAD registration	
Black listed contractors		
Have you been declared as a defaulted contractor by NPA or any other Agency?		Yes / No
If yes provide details.		
VAT Registration Number		
Construction Program	(attach as annex)	
Legal Status	(Public Company/Private Company/Partnership/Sole Proprietor)	
Qualification and experience of key staff	Eligibility Requirement	Bidder's Qualification
	Category, Experience and Qualifications	Required Nos
	1. Site Supervisor With one Year Experience	01
List other information required		

Signature of the Bidder:

Section – 5
SCHEDULE

SCHEDULE

IT B C a u s e	Condit ions of Contra ct Clause	Item	Data
1.	1.1	Employer is:	Name: <i>Vice Chancellor</i> Address: <i>Eastern University Sri Lanka</i> <i>Vantharumoolai</i> <i>Batticaloa</i>
	1.1.9	Employer Representative:	Name:- Deputy Director – Engineer (AHEAD Project) Address: <i>Eastern University Sri Lanka</i> <i>Vantharumoolai</i> <i>Batticaloa</i>
	1.1.10	Engineer is:	Name: <i>Deputy Director – Engineer (AHEAD Project)</i> Address: <i>Project Director,</i> <i>Department of Buildings</i> <i>Eastern Province, Trincomalee</i>
		Engineer's Representative	Name: <i>Executive Engineer</i> Address: <i>Department of Buildings</i> <i>Kallady, Batticaloa</i>
1..	1.1.21	Summary of Works	Supplying, Installation and Handing Over of Net House with Hydroponics and Mist Propagator System at the University Farm, Faculty of Agriculture, EUSL Located at Palacholai, Vantharumoolai Contract Number <i>EUSL/AHEAD/AGI/10/II</i>
1.	1.1.14	Intended Completion Date	Intended Completion Date is Two Months from the Start Date
		Source of Funds	The source of funds is GOSL
		Eligibility	Shall hold a valid registration for the grade specified in the IFB, at CIDA. (C8 & C7)

1.3 The documents forming the contract are in the following order of priority

- 1) Letter of Acceptance
- 2) Contract Agreement
- 3) Memorandum of Understanding (if any)
- 4) Contractor's Evaluated Bid – Accepted BOQ
- 5) Schedule
- 6) Conditions of Contract
- 7) Specifications
- 8) Drawings
- 9) Bill of Quantities

16 **Bid Security**

Bid shall include a bid security

For an amount of **Rs.23,700.00**

Issued by an agency
acceptable to the employer Yes / No
Remain valid till **91 Days**

31. 4.4 Performance Security Amount of Performance Security required is 5 % of the Initial Contract Price. The form acceptable is unconditional bank guarantee, bond from construction guarantee fund and from an approved insurance company acceptable by the Employer

6.4 Late Completion The amount to be paid is **0.025%** of Initial Contract Price per Day, subjected to maximum of **5%** of Initial Contract Price.

8.1 Notification of Defects The period for Defect Notification is 365 Days from Taking Over.

10.3 Retention money The amount of retention is **10 %** of certified work done.

The maximum amount of retention is 5% of Initial Contract Price.

13. 10.9 Price Deleted / Applicable

Adjustment If Applicable only the price adjustment shall be computed in accordance with the ICTAD formulae **Option B** under Sub Clause 10.10
Non Adjustable element shall be

10.11 Advance Payment Applicable / Deleted

If applicable, upon the payment of the advance payment in full the Employer shall return the original of the Advance Payment Guarantee to the contractor

13.1 (c) Insurance, third party Minimum amount for third party insurance is Rupees

13.1 Insurance for Contractor's Personnel Minimum amount for Insurance for Contractor's Personnel is Rupees.....

33. 1.1.11 Adjudicator The Adjudicator proposed by the Employer is.....

Fees and types reimbursable expenses to be paid to the adjudicator shall be on a case to case basis and shall be shared by the contractor and the Employer

14.0 Resolution of Disputes Fees and types reimbursable expenses to be paid to the arbitrator shall be on a case to case basis and shall be shared by the contractor and the Employer

Section – 6

SPECIFICATIONS

SPECIFICATIONS

Following standard specifications published by ICTAD to be followed.

SCA/3/2 - Water Supply Sewerage & Storm Water Drainage

SCA/4 - Building Works (Vol I)

SCA/4/II - Building Works (Vol II)

SCA/8 - Electrical & Mechanical Works

Any other Standard Specifications approved by the Government.

Section – 7

BILLS OF QUANTITIES

Section – 8

DRAWINGS

CHECK LIST FOR BIDDERS

Bidders are advised to fill the following table:

ITEM	ITB Clause	YES (tick)	REFERENCE
Form of Bid			
Addressed to the Employer ?	18		
Completed?	18		
Signed?	18		
Bid Security (if required)			
Addressed to the Employer ?	16		
Format as required?	16		
Issuing Agency as specified?	16		
Amount and currency as requested?	16		
Validity 28 days beyond the validity of Bid?	16		
Qualification Information			
All relevant information completed?	4		
Signed?	4		
Addendum			
Contents of the addendum (if any) taken in to account?	10		
Bid Package			
All the documents given in ITB clause 12 enclosed in the original and copy?	12		
ITB Clause 19 followed before Sealing the Bid Package?	19		

SIGNATURE OF THE BIDDER

BOQ for Supplying, Installation and Handing over of Net House with Hydroponics and Mist Propagator System at the University Farm, Faculty of Agriculture, Eastern University, Sri Lanka.

Note:- All work to be carried out as per instruction of supervising officer. Payment will be made only for quantity of work done. Rates are included for testing of concrete and construction materials.

ITEM.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(LKR)
	<u>BILL NO: 01</u>				
	<u>(A) - PRELIMINARIES</u>				
	<u>Insurance and Securities</u>				
A-NHEU-1	Allow for providing a Performance Security			P.Sum	10,000.00
A-NHEU-2	Allow for providing an Advanced Payment Security			P.Sum	15,000.00
A-NHEU-3	Provisional sum for insurance of Works, Machinery & Equipment , Plant, Materials, third party persons & property and Employer's personnel & property at site as per the Contract			P.Sum	10,000.00
	BILL NO:01, PRELIMINARIES CARRIED TO SUMMARY				35,000.00
	<u>BILL NO: 02</u>				
	<u>(B) - SITE CLEARING WORK</u>				
B-NHEU-1	Clearing site including removal of roots and growth of every description, removing top soil upto a depth of 150mm extended upto 3.0m beyond the outer walls of the proposed building and carting away the waste material from the site where directed & levelling.	Item	Allow	Sum	.....
B-NHEU-2	Completion- The contractor shall remove all debris clean all surplus materials as directed by the Engineer and leve whole of the works in a clean and perfect condition fit for occupation and use at completion. The whole area of the works shall be completely cleared of all debris and tidied up to the entire satisfaction of the Engineer.	Item	Allow	Sum	.....
	BILL NO:02, SITE CLEARING WORK CARRIED TO SUMMARY				

ITEM.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(LKR)
	<u>BILL NO: 03</u>				
	<u>(C) - NET HOUSE</u>				
C-NHEU-1	Supplying, fabricating and fixing of Vertical sde post 50mm dia GI tube, galvanize both side, 2.3mm Thickness.	Lm	60.00	.....	.....
C-NHEU-2	Supplying, fabricating and fixing of Vertical center post 50mm dia GI tube; 2.3mm Thickness, galvanize both side.	Lm	11.00	.....	.....
C-NHEU-3	Supplying, fabricating and fixing of GI tube 50mm Dia, 2.3 mm wall thickness (Galvanized double sided) Fabricated arch to obtained 4.20m center height and 3.0m gable height with the width of 6.0m.	Nos	6.00	.....	.....
C-NHEU-4	Supplying, fabricating and fixing Horizontal support tube 25mm dia GI tube ,galvanize both side, 2 mm thickness to connect all the arches.	Lm	88.00	.....	.....
C-NHEU-5	Supplying, fabricating and fixing 02 nos of side purlines for arches 50mm dia GI tube, 2.3mm thickness, galvanize both side.	Lm	26.00	.....	.....
C-NHEU-6	Supplying, fabricating and fixing 6 No's of center purlines 50mm dia GI tube, 2.3 mm thickness, galvanize both side.	Lm	38.00	.....	.....
C-NHEU-7	Supplying, fabricating and fixing the support from the center purlins to arches 25mm dia GI tube, 2 mm thickness, galvanize both side.	Lm	40.00	.....	.....
C-NHEU-8	Supplying, fabricating and fixing the ground level tube 25mm dia GI, 2 mm thickness, galvanize both side.	Lm	38.00	.....	.....
C-NHEU-9	Supplying, fabricating and fixing of GI welded wire mesh, 50x50mm square type, 2.80mm SWG 10 over the arches.	m ²	82.00	.....	.....
C-NHEU-10	Supplying, fabricating and fixing of Roof cover uv treated and uv resistant greenhouse cover film, 200 micron thickness, 6 m width, 40m Length.Rate to including PVC pipe clamps and revert. Fixing details as per drawing	Roll	1.00	.....	.....
C-NHEU-11	Supplying, fabricating and fixing of Roof cover uv treated and uv resistant shade net; diffused 50% of light transmission, 4 m width, 50m Length. Rate to including PVC pipe clamps and revert. Fixing details as per drawing	Roll	1.00	.....	.....

ITEM.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(LKR)
C-NHEU-12	Supplying, fabricating and fixing of UV treated and UV resistant 40 mesh white color insect proof net for all the side covering and trap door, 3.5 m width, 40m Length. Rate to including PVC pipe clamps and revert. Fixing details as per drawing	Roll	1.00	.....	.....
C-NHEU-13	Supplying, fabricating and fixing of GI welded wire mesh, 50x50mm square type, 2.80mm SWG 10 to cover all sides.	m ²	113.00	.....	.....
C-NHEU-14	Supplying and Fixing the green house fans in the front side 45 x45 cm.	Nos	2.00	.....	.....
C-NHEU-15	Supplying and Fixing the green house fans in the back side 60 x60 cm.	No	1.00	.....	.....
C-NHEU-16	Supplying and fixing of 1.0x2.0m size Slide door using material 25mm GI pipe frame work with cover to UV treated and UV resistant 40 mesh white color insect proof net . Net fixing frame internaly 20mm dia PVC pipe. Rate icluding 50mm dia puly and 40x40x6mm 'L' iron All complete According to the Drawings.	Item	Allow	Sum	.....
C-NHEU-17	1:2:4(20mm) 300x300x600mm size concrete footing and form work. Including excavation to fix 50mm GI post. (Rate excluding GI post)	No	17.00	.....	.....
C-NHEU-18	Supplying, Fabricating and fixing the GI Gutter on both sides 13m (6.5m One side), 150mm width and 100mm height, Galvenized.	Lm	26.00	.....	.....
BILL NO:03, NET HOUSE CARRIED TO SUMMARY					

ITEM.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(LKR)
	<u>BILL NO: 04</u>				
	<u>(D) - HYDROPONICS SYSTEM</u>				
D-HSEU-1	Supplying and fixing a Screen Filter with its pipe lines 50mm, 50 m ³ /h, 120 micron.	No	1.00	.....	.....
D-HSEU-2	Supplying and Fixing the Electronic Automated Digital Timer, Relay, Panel Box, Power Pack, Protective Cover and Wiring.	No	1.00	.....	.....
D-HSEU-3	Supplying and Fixing the Hydroponics tubes: PVC tube, 90mm Dia, 10m in length, 2" holes in top, 25cm spacing between two holes.	No	14.00	.....	.....
D-HSEU-4	Supplying, Fabricating and Fixing the triangle Iron Square Bar, 50mmx1mm, A Frame 10m in length, 1.5m in width, 1.8m in height, Galvanised.	No	6.00	.....	.....
D-HSEU-5	Supplying and Placing the Grow Bag and Coco Feet Bag 300x1200x300mm	No	40.00	.....	.....
D-HSEU-6	Supplying and Fixing the Arrow Drippers 2.5 l/h in the lateral lines.	No	100.00	.....	.....
D-HSEU-7	Supplying, Fabricating and Fixing the GI Gutter system, long 10 m,width 300mm, height 150mm with 100mm drainage system, Galvanized.	No	4.00	.....	.....
D-HSEU-8	Supplying and Fixing the feed and drain tubes. 63mm drainage pipe from two gutted to water supply tank.	L.m	12.00	.....	.....
D-HSEU-9	Supplying and Fixing the main pipe line to hydroponics system, 32mm PVC.type 1000.	L.m	5.00	.....	.....
D-HSEU-10	Supplying and Fixing the lateral pipe line to hydroponics system. 13mm LDPE Pipe, 50m.	Roll	1.00	.....	.....
D-HSEU-11	Supplying and Fixing a plastic tank, 2000 L PE+premium triple layer, its pipes with Hydroponics system.	No	1.00	.....	.....
D-HSEU-12	Supplying and Fixing 1 HP solex Sx-136/1.0,1.0HP water Pump with power and water tank to supply water to Hydroponics system.32mm dia suction & delivery with wiring and foot valve, starter switch etc	No	1.00	.....	.....
D-HSEU-13	Transportation,Installation, Technisian and Other Charges.	Item	Allow	Sum	.....
	BILL NO:03, HYDROPONICS SYSTEM CARRIED TO SUMMARY				

ITEM.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(LKR)
	<u>BILL NO: 05</u>				
	<u>(E) - MIST PROPAGATOR</u>				
E-HSEU-1	Supplying and Fixing the Fog Nozzles 4 way nozzles/30 l/h.	No	90.00	.....	.....
E-HSEU-2	Supplying and Fixing the Laterals-16mm LDPE 05 laterals, 1m x1m, 50m .	Roll	1.00	.....	.....
E-HSEU-3	Supplying and Fixing the main pipe line to Mist propagator. 50mm PVC, PNT11	Bar	3.00	.....	.....
E-HSEU-4	Supplying and Fixing 50mm, Presure Pump with power and Main Pipe Line to supply water to mist propagators.	No	1.00	.....	.....
E-HSEU-5	Supplying and Fixing the Sensor to control the Temperature.	No	1.00	.....	.....
E-HSEU-6	Supplying and Fixing a plastic tank, 2000 L, its pipes with Mist Propagators.	No	1.00	.....	.....
E-HSEU-7	Transportation,Installation, Technisian and Other Charges.	Item	Allow	Sum	.....
E-HSEU-8	Misselenious expenses for miner changes in the design during the assambling of net house, mist and hydropnics			P.Sum	25,000.00
	BILL NO:05, NET HOUSE CARRIED TO SUMMARY				
	<u>BILL CARRIED TO SUMMARY</u>				
	BILL NO:01, PRELIMINARIES				.....
	BILL NO:02, SITE CLEARING WORK				.....
	BILL NO:03, NET HOUSE				.....
	BILL NO:04, HYDROPONICS SYSTEM				.....
	BILL NO:05, MIST PROPAGATOR			
	BILL TOTAL SUMMARY				

ITEM.NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(LKR)
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BILL OF GRAND TOTAL

I.NO	DESCRIPTION OF WORK	TOTAL AMOUNT (LKR)
1	Bill Total Summary For : Supplying, Installation and Handing over of Net House with Hydroponics and Mist Propagator System (As Per Annex BOQ) (Collection Pages : 1 to 5)
	TOTAL CARRIED TO SUMMARY	
	LESS PROVISIONAL SUM WORK (-)	60,000.00
	SUB TOTAL-I	
	LESS DISCOUNT(%) (If any)	
	SUB TOTAL-II	
	ADD PROVISIONAL SUM WORK (+)	60,000.00
	GRAND TOTAL (BID PRICE) -EXCLUDING VAT	

Total Amount in words:

.....
.....

Total Value of VAT (Rs) :

VAT Registration Number :

.....

Signature Of Bidder

Date:

.....

Signature Of Employer

Date:

Witness :

Address:

.....

**BOQ for Supplying, Installation and Handing over of Net House with Hydroponics and
Mist Propagator System at the University Farm, Faculty of Agriculture,
Eastern University, Sri Lanka.**

A1. NOTES AND PRELIMINARIES.

Note:-

This bill of quantities contains pages 06 consecutively. Please check to see that no pages missing not any in duplicate and that all **TRADES** are carried to **SUMMARY** at the end of this Bill of Quantities

A2. Specifications

All items of work are to be done strictly as shown in drawings accordance with and read and in conjunction with the Sri Lanka specification for buildings works, Electrical works, water supply and sewerage work (CITP / ICTAD publication).

The Project Director may direct a special order of work.

A3. Drawings

The following drawings listed here under and any other detail drawings referred to through out this Bill of Quantities will form a part of the contract documents.

Architectural
Structural
Structural details

General arrangement, Plans & Sections, Details of Foundation

A4. Inspection of site.

Tenderers are requested to visit the site and acquaint themselves with all existing conditions and with the nature and extent of work to be done under this contract.

As no extras will be allowed on the plea of want of information due to neglect on their part of this regard.

A5. Timber

Unless otherwise specified in the respective trades/sections, the timber for all trades shall be as specified in Carpentry & Joinery.

A6. Cement

Cement having SLS 107 or equivalent Approved by Engineer.

A7. Trade Name

Where trade names, brands and / or catalogue or equipment may be used, Provided that the characteristics of type, quality, appearance, finish method of construction and / or performance is not less than specified and provided also that approval is first obtained.

A8. Method of Measurement.

This Bill of Quantities has been provided generally in accordance with:-

- (a) The principles of the Standard Method of Measurement for buildings works in Sri Lanka.
(SLS 573:1982)
- (b) The S.M.M. issued by the quantity Surveying Section. Departments of Building August 1980

A9. Rates

Rates for all items shall be inclusive of the following:

- (a.) All supply of materials, labour, plant, Scaffolding, waster, Incidental Materials, fixing media, Cartage, Hoisting, Fitting and fixing Complete.
- (b.) Providing holes, chasing etc. as directed for electrical Installation and all other services and making good as the same as and when such installations are provided
- (c.) Providing samples specimens etc for such items of work as required.
- (d.) All overhead preliminary expenses and profit except where otherwise stated.
- (e.) Testing of all buildings materials.
- (f.) Furnishing monthly 3 sets of photography for the buildings under construction from three locations identified by the Engineer.
- (g) Providing stable access (Temporary Stair case) Externally from ground floor to 1 st and 2 nd floor level to transport materials, labourer & etc.

A10. Measurements:-

Tenderers are to note that the measurement are taken absolutely NET unless otherwise stated and they must, therefore, allow in their prices for all straight cutting and waste, laps, etc through out even though not specifically mentioned.

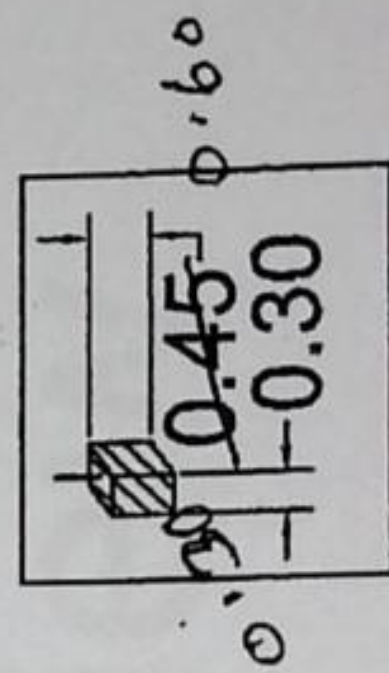
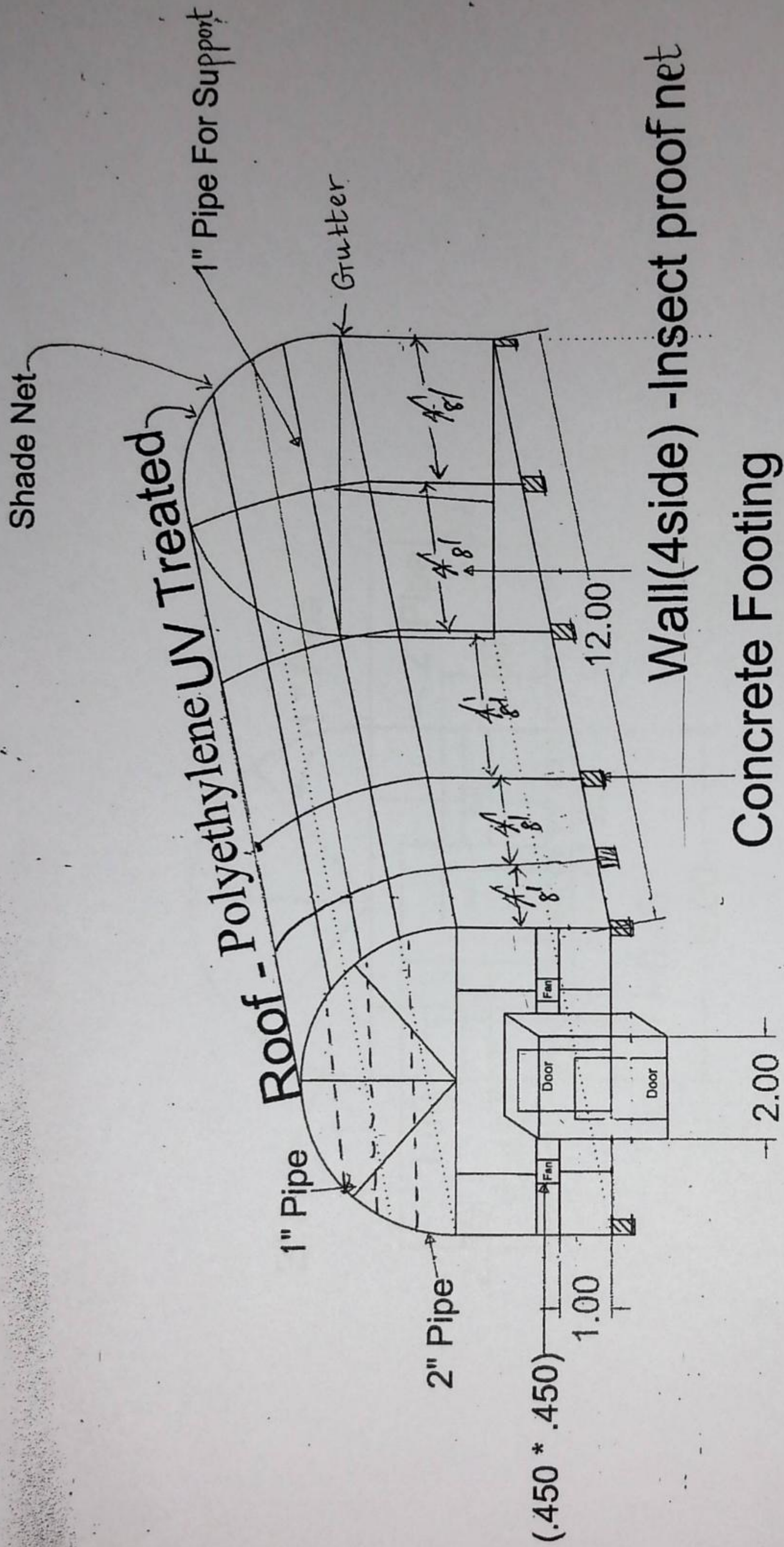
A11. Descripancies:-

Any discrepancies in drawings Specifications, Bill of Quantities or any other documents should be brought to the notice of the Employer before tendering.

A12. Payments:-

Payments shall be made on actual quantity of work carried out at the site as per Contract.
The quantities given in the bill of quantities are approximate.

Attention of the tendered is drawn to the requirements of contract, the specifications and any other Particulars of the tender. It is the tenderers responsibility to see that his prices include for and any complying with all the requirements of the conditions of contract and any other documents whether specifically referred to in the bill of quantities or not.

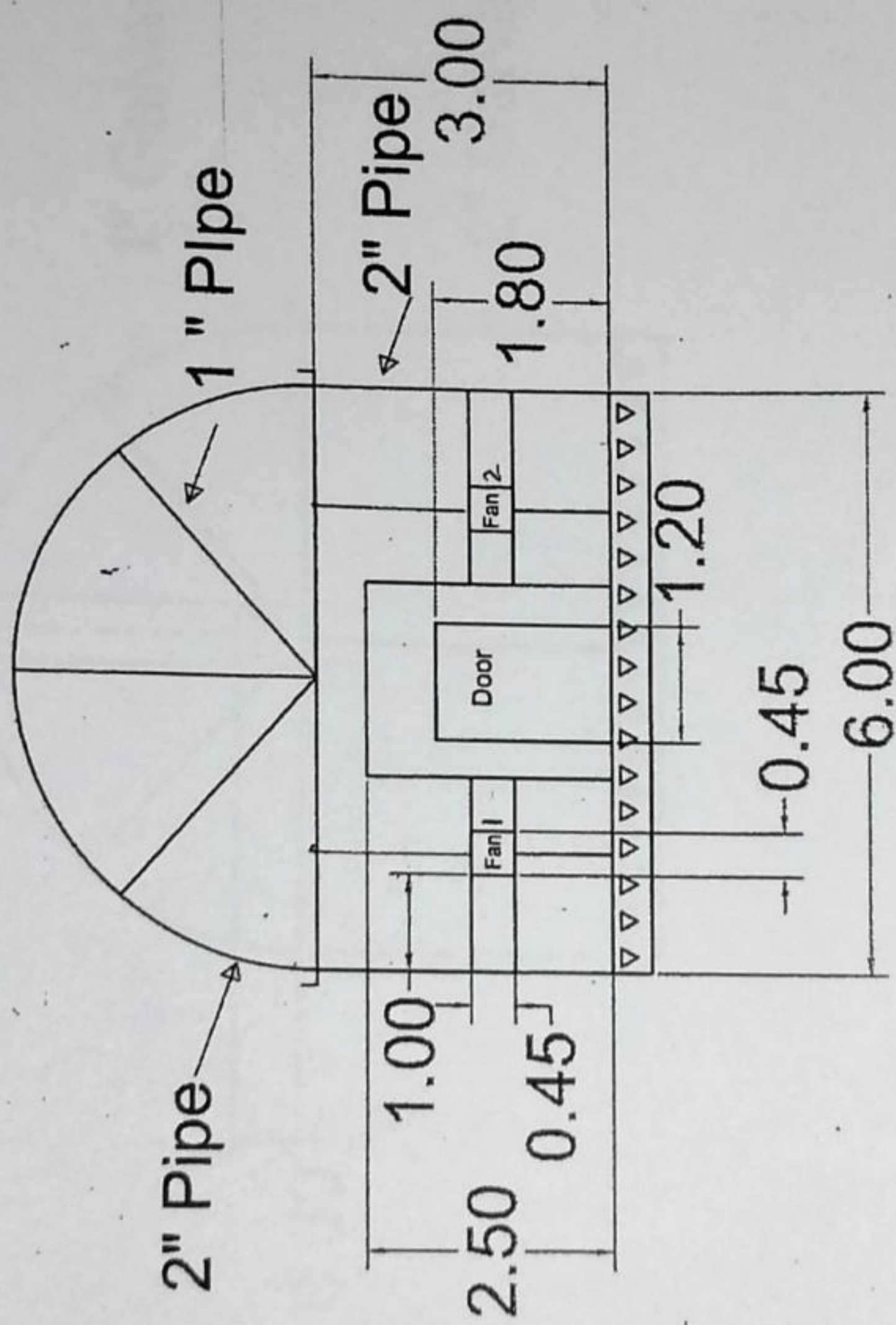


Scale in meter

S. Srikishan

08/05/20

Dr. J. S. Srikishan
Farm
Structure
University

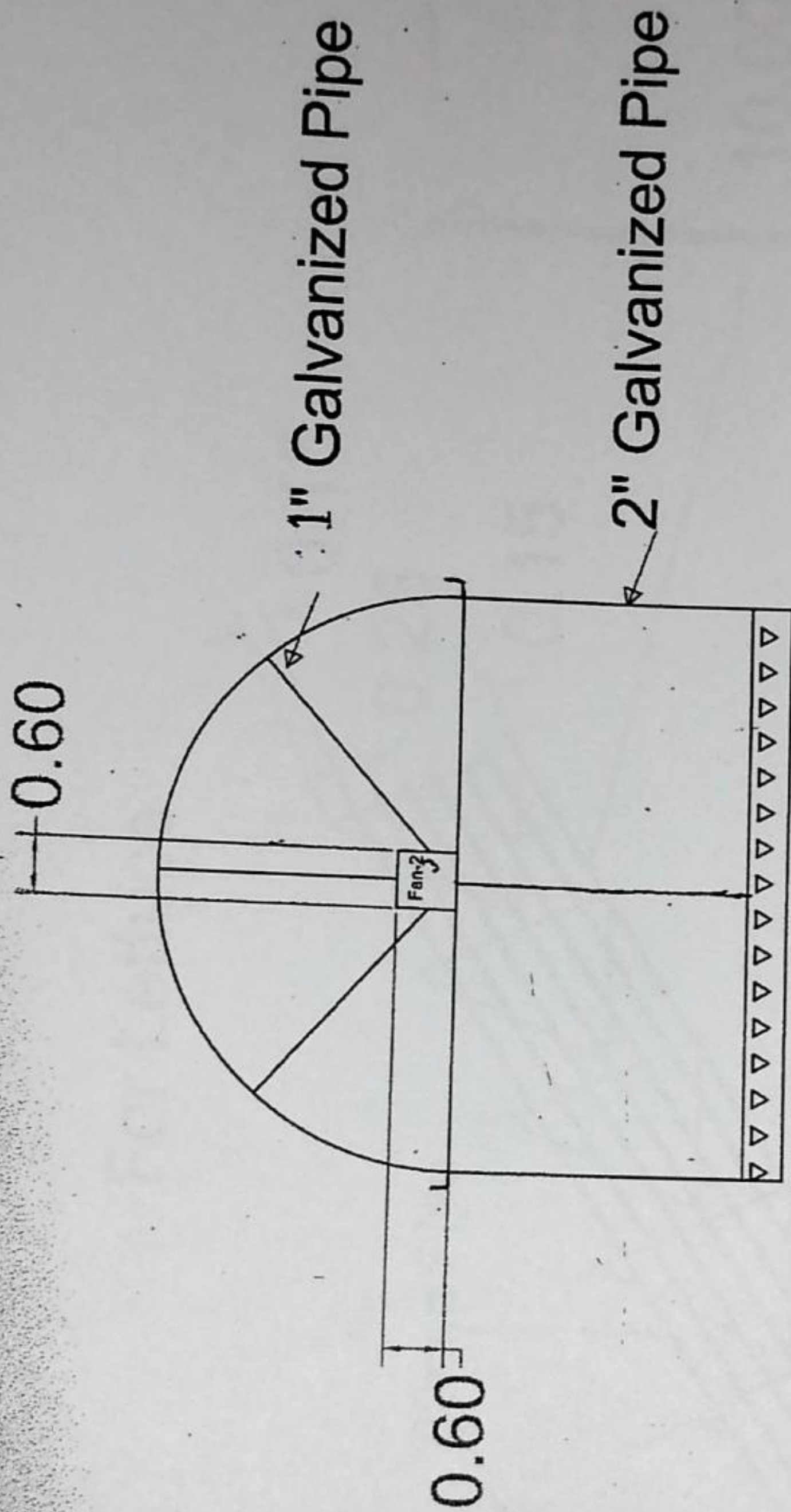


Front view

6/10/20
S. Srinivasulu

CP 1.156
08/10/20

For
signature
of Exam
registrar
Date



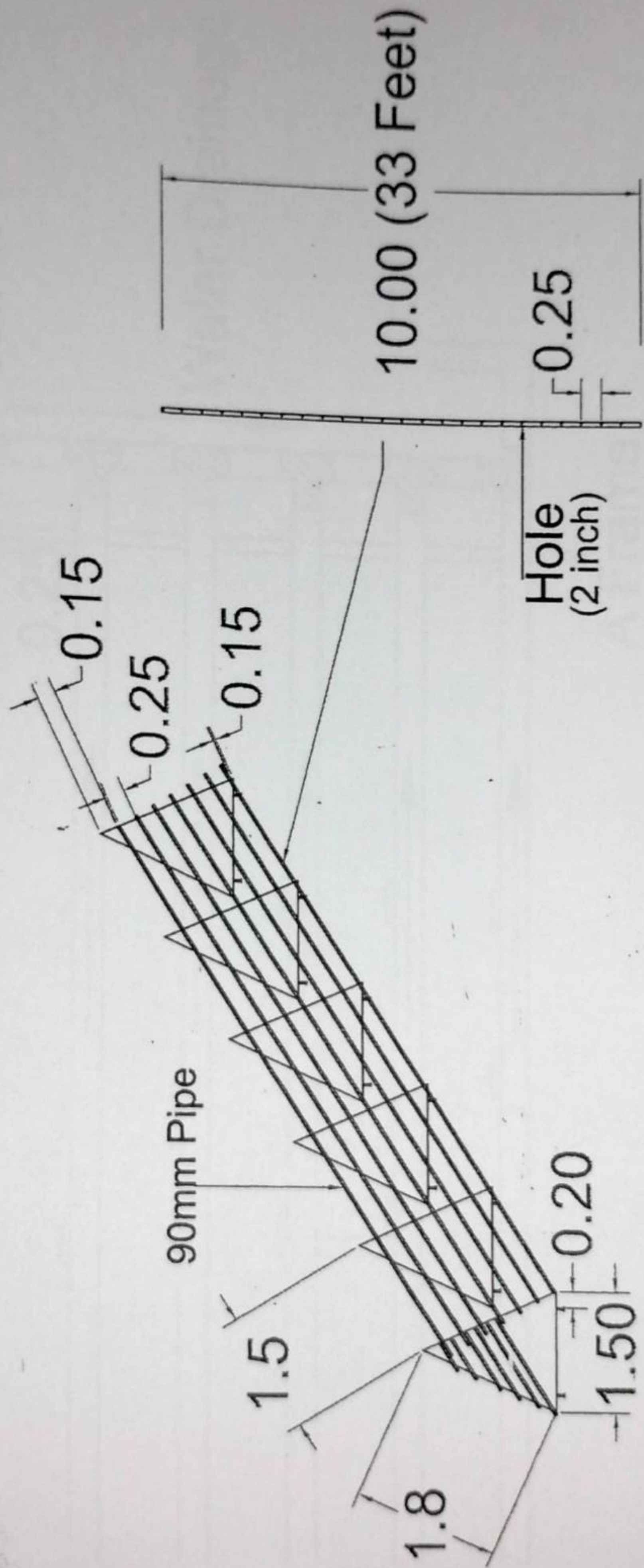
Back Side

Fire
08/05/20

S. S. S. S. S.
(S. S. S. S. S. S.)

Signature
Manager
Engineering
Department
H. S. S. S. S.

For Lettuce



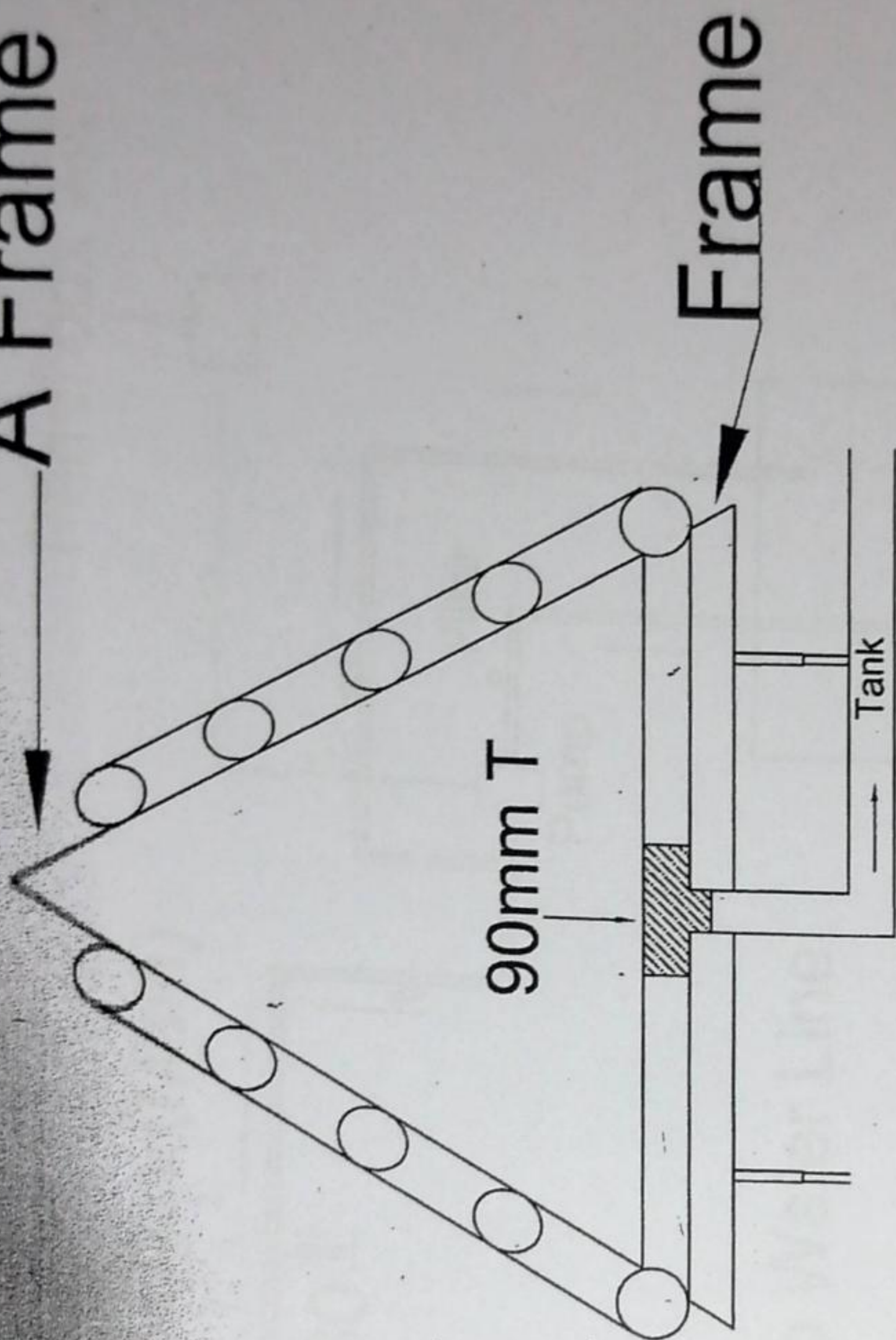
Signature
 Date
 Page
 University

Scale in meter.

Signature
 (S. Srikumar)

First reference

A Frame



Back Side view

T. S. Srinivasan
(S. Srinivasan)

T. S. Srinivasan
S. Srinivasan

Dr. S. Srinivasan
Professor
Department of
Mechanical Engineering
Anna University,
Chennai

Panel box with Timer

Water Pipe (Main)

Control valve

1.20

0.60

Grow bag

Plant

Sub Water Line

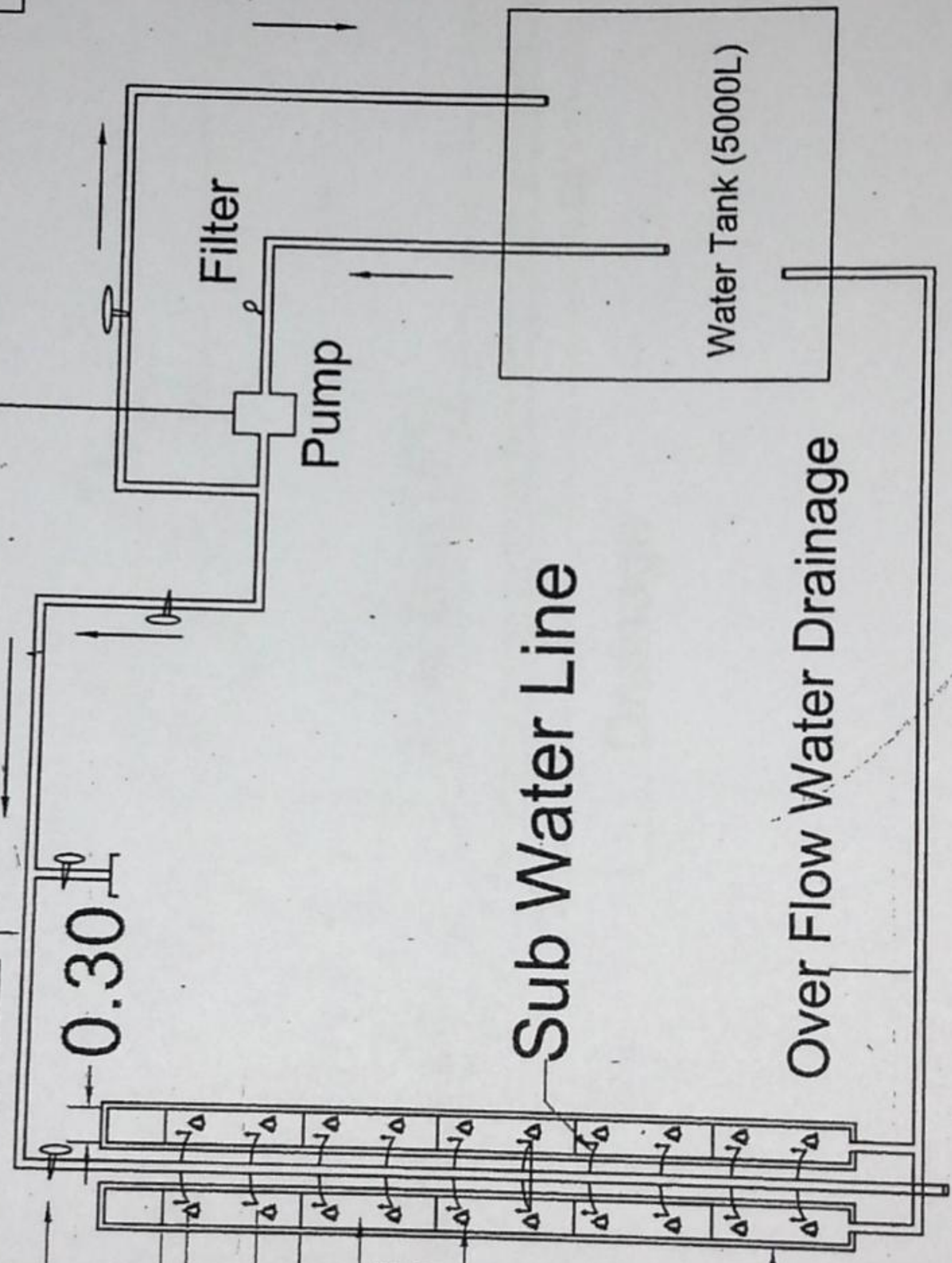
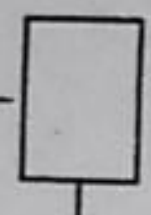
Gutter

Over Flow Water Drainage

Filter

Pump

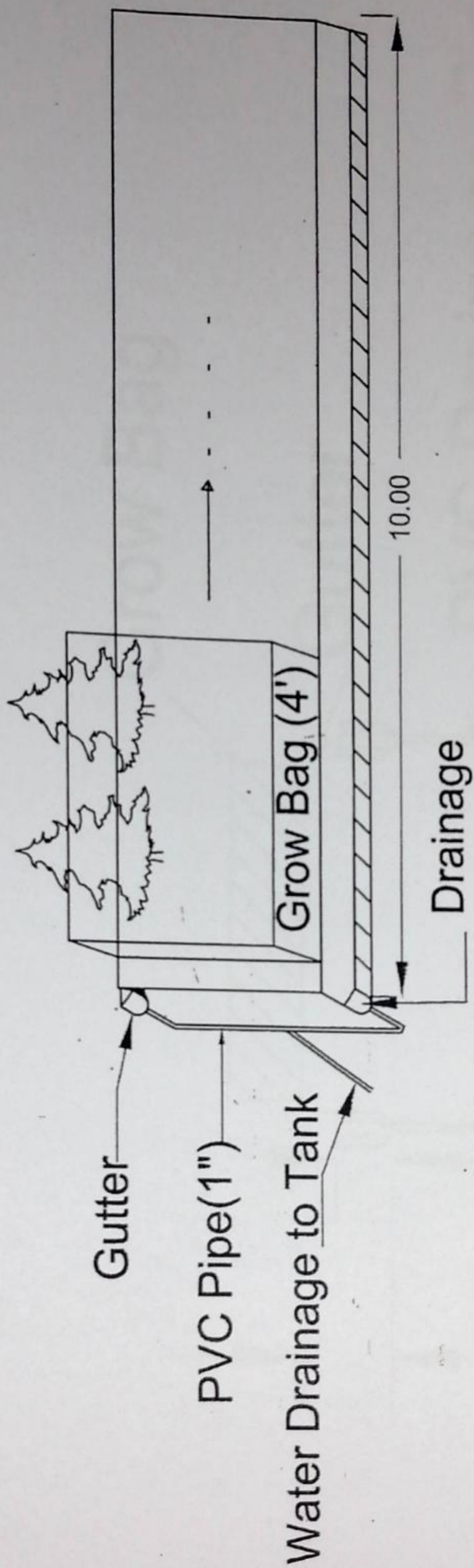
Water Tank (5000L)



Signature
Manager
Form
Agriculture
University
For
Examination

6/10/20
(S. Srikishan)

T. 00
08/10/20

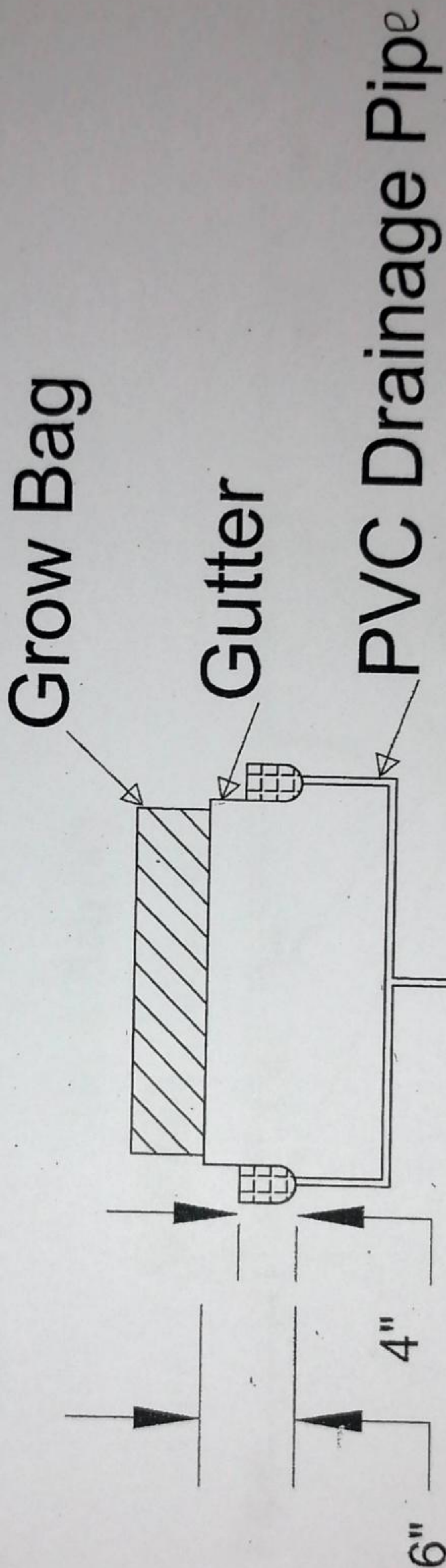


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Handwritten signature and text, possibly a name or title, located in the middle right area of the page.

Handwritten signature and text, possibly a name or title, located in the bottom right area of the page.

Front View

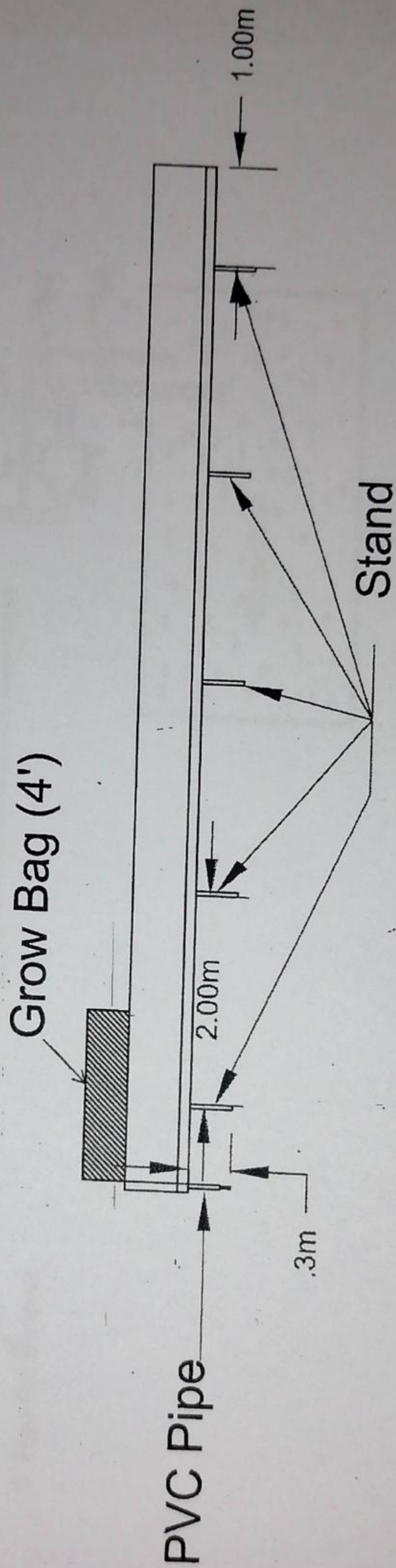


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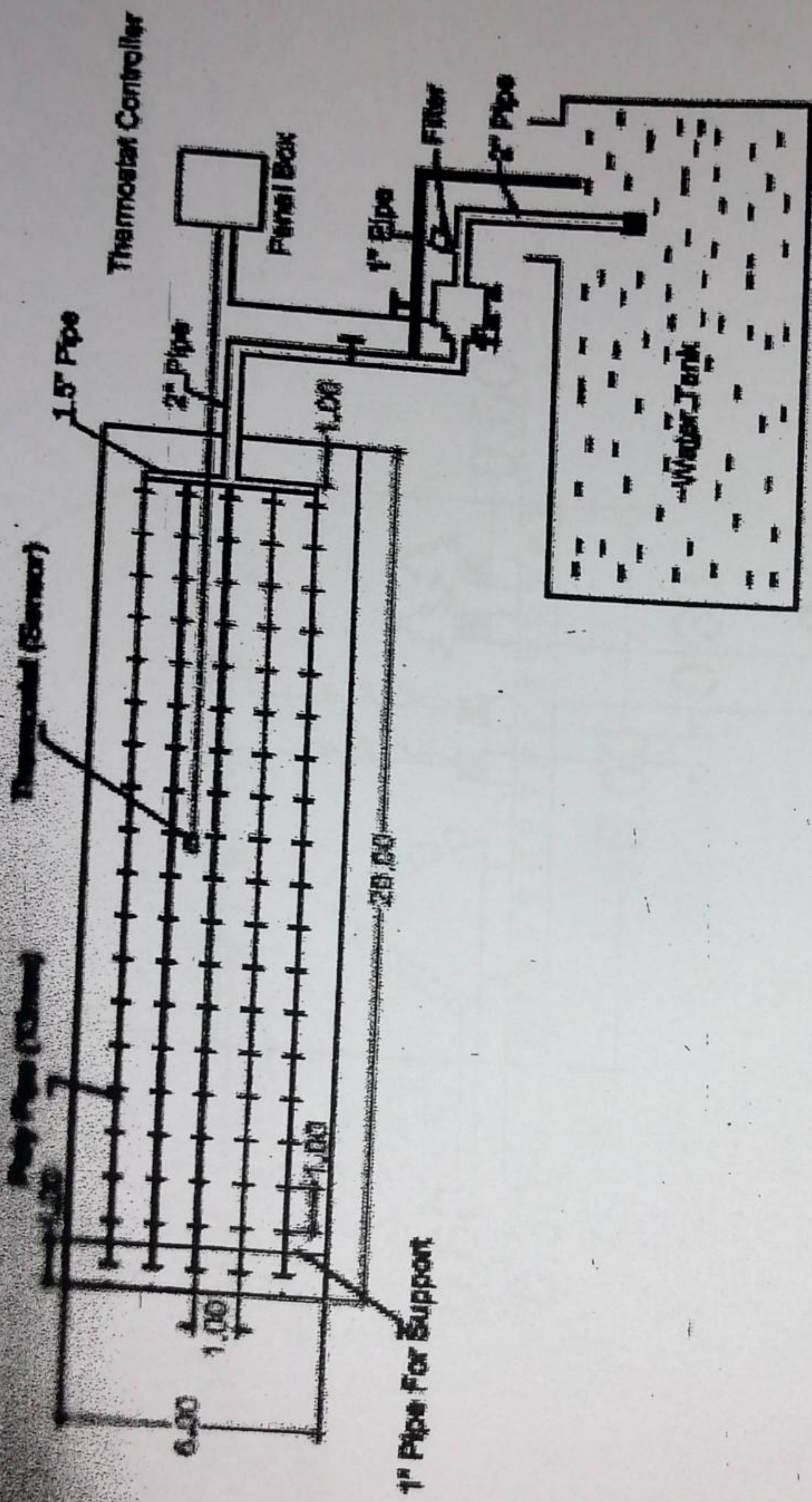
Side View



University of Agriculture
Karnataka
Bangalore
6/10/2020
(S. Srinivasan)

6/10/2020
(S. Srinivasan)

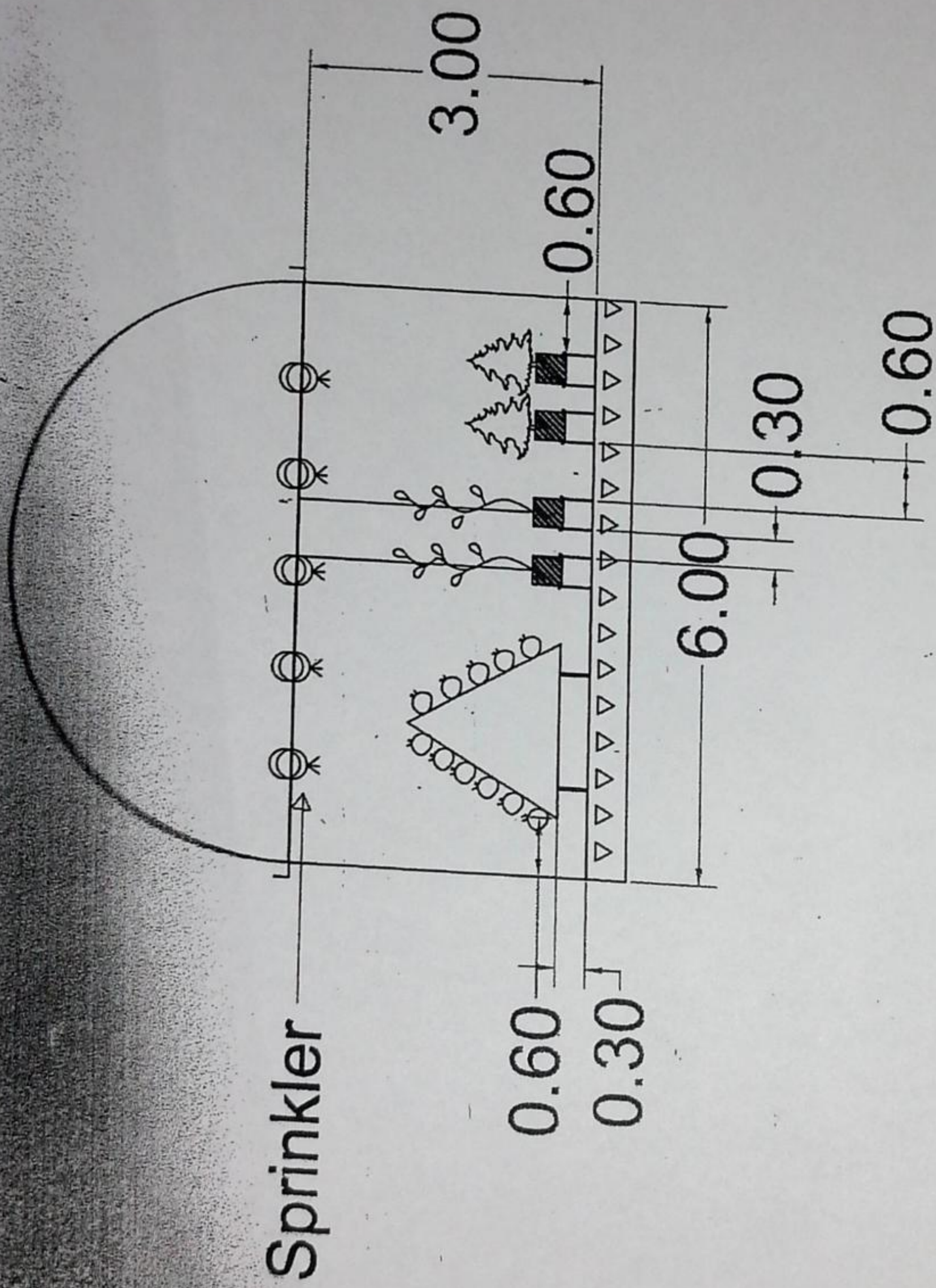
6/10/2020
(S. Srinivasan)



Cooling System

T. rabi
 20/05/20
 21/06/2020
 (S. Sakurishiki)

J. T. rabi
 20/05/20
 21/06/2020
 (S. Sakurishiki)



Nethouse Inside view

Fire
Dafuho. (Srikunishu) scale in meter

ager
Farm
structure
For
University