



भा कृ अनु प- केन्द्रीय कंद फसल अनुसंधान संस्थान

(भारतीय कृषि अनुसंधान परिषद, कृषि और किसान कल्याण मंत्रालय, भारत सरकार)

श्रीकारियम, तिरुवनन्तपुरम-695 017, केरल, भारत

ICAR- CENTRAL TUBER CROPS RESEARCH INSTITUTE

(Indian Council of Agricultural Research, Ministry of Agricultural and Farmers Welfare, Govt. of India)
Sreekariyam, Thiruvananthapuram-695 017, Kerala, India



ISO 9001:2008

Tender ID : 2019_DARE_497152_1

F. No.3(22)/2019-Store

Date: 23.08.2019

NOTICE INVITING QUOTATION THROUGH E-PROCUREMENT

1. Online Bids are invited from the reputed firms under one bid system for **Fabrication of prototype of a continuous steaming machine for making sago papad/sago (Technical specification given in the Annexure II)** Rate shall be quoted in the Microsoft Excel sheet uploaded as BOQ on the CPPP Website. (on CPPP site <https://eprocure.gov.in/eprocure/app>). Manual bids will not be accepted.

2. Tender documents may be downloaded from e-Procurement website of CPPP <https://eprocure.gov.in/eprocure/app> as per the schedule given in CRITICAL DATE SHEET as under:-

Tender No	F. No. 3(22)/2019-Store
Date and Time for Issue/Publishing	24.08.2019 at 2.00 pm
Document Download/Sale Start Date and Time	24.08.2019 at 3.00pm
Bid Submission Start Date and Time	25.08.2019 at 10.00am
Bid Submission End Date and Time	24.09.2019 at 1200pm
Date and Time for Opening of Bids	25.09.2019 at 12.00pm
Address for Communication	Director ICAR-Central Tuber Crops Research Institute Sreekariyam, Thiruvananthapuram Kerala-695017

3. Bidders are advised to follow the instructions provided in the 'Instructions to Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'.

4. The tender form/bid documents may be downloaded from the website: <https://eprocure.gov.in/eprocure/app>. Online submission of Bids through Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.

5. Tenders/bidders are requested to visit website <https://eprocure.gov.in/eprocure/app> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.

6. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The ICAR-CTCRI reserves the right to accept or reject any or all the tenders.
7. Not required to deposit any tender fee.
8. The interested Firms are required to deposit (in original) Earnest Money (EMD) of the amount mentioned against items in the form of Demand Draft/Bankers Cheque from any of the Commercial Bank in favour of 'ICAR Unit-CTCRI' payable at Sreekariyam, Thiruvananthapuram may be addressed to the **Director, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala-695017** on or before bid opening date and time as mentioned in the Critical Date Sheet.
9. Bidder need not to come at the time of Technical as well as Financial bid opening at ICAR-CTCRI. They can view live bid opening after login on CPP e Procurement Portal at their remote end. If bidder wants to join bid opening event at ICAR-CTCRI then they have to come with bid acknowledge slip that generates after successfully submission of online bid.
10. An earnest money of **Rs 5000/-** must be deposited in the form of DD/Bankers Cheque in favour of '**ICAR - CTCRI Unit**' payable at Sreekariyam, Thiruvananthapuram. The particulars of the earnest money deposited must also be superscribed on the top of the envelope by indicating the draft/bankers cheque number and date, failing which the Tenders will not be opened. The tender will not be considered if earnest money is not deposited with the Tenders.

TERMS AND CONDITIONS

- (a) **The item should be supplied at ICAR-Central Tuber Crops research institute, Thiruvananthapuram**
- (b) **This Institute is registered with the Department of Scientific and Industrial Research (DSIR) for purpose of availing duty exemption for research purpose in terms of Government Notification No.51/96 -Customs dasted 23.07.1996 and Central Excise duty exemption in terms of Government Notification No.10/97-Central Excise dated 1.03.1997 as amended from time to time and entitled for exemption from payment of Excise Duty/ Customs Duty. As per Government of India, Ministry of Finance, Department of Revenue Notification No.45/2017. Central Tax (Rate) dated 14.07.2017 concessional GST Rate for Research Institutions is 5% only.**
- (c) As per the existing rules, no advance payment will be made
- (c) The bill should have GST number and GST number of ICAR-CTCRI
- (d) Any loss, damage, pilferage etc. of the material on transit will be sole responsibility of the supplier.

- (e) Supply should be made full against the order and no part supply will be accepted
- (f) Supply will be completed within the stipulated date of delivery given in the supply order. No extension will be granted except in the case of natural calamity, factory lock out etc. which is beyond the control of supplier. In such cases supplier shall/should approach this office well in advance but not later than the date for consideration towards extension of date of delivery.
- (g) The ICAR-CTCRI reserve the right to reject the stores/work in case these are found not conforming to specification/sample prescribed.
- (i) During evaluation and comparison of bids, the buyer may, at his discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the initiative of the bidder will be entertained.
- (j) Any clarification regarding size, specification or printing mistake, if any, can be sought by the bidder before 'Clarification End' date. No request for change in Make/model number/size/ specification etc on any pretext will be entertained post-bid.
- (k) Supply orders are liable for cancellation without assigning any reasons prior to actual supply of stores within the time specified for supply in the supply order.
- (l) The rate should remain valid for three months.
- (m) As per the existing rules, no advance payment will be made.
- (n) The right to accept or reject any or all of the quotation in full on part thereof is reserved by the Director, CTCRI, Thiruvananthapuram.
- (o) The rates are to be quoted to have a minimum validity for a period upto 90 days from the last date of submission of quotation/tender and the rates are to be quoted with cost and supply of all materials at site, taxes, transportation of material and labour charges etc.
- (p) Any bid found without GST No & certificate will not be admitted and treated as cancelled.

12. Scanned copies of the following document to be uploaded at the time of bid submission. Bid will not be considered in absence of these documents.

- (a) Copy of PAN//GST number.
- (b) Bank account details.
- (c) Tender acceptance letter to be given in company - As per Annexure-I letter head.
- (d) Scan copy of EMD deposited.
- (e) Technical specification of the fabrication - As per Annexure -II
- (f) Price bid as BOQ


Asst Administrative Officer (Store)

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of terms and conditions of tender.

Tender Reference No :

Name of tender/work _____

Dear Sir,

1. I/We have downloaded/obtained the tender documents for the above mentioned Tender/work from the web site(s) namely:

As per your advertisement, given in the above mentioned website(s).

2. I/We hereby certify that I/We read the entire terms and conditions of the tender documents from Page No _____ to _____ (including all documents like Annexure(s), Schedules(s) etc..) which form part of the contract agreement and I/we shall abide hereby the terms/conditions/clauses contained therein.

3. The corrigendum(s) issued from the time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.

4. I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in its totality/entirety.

5. I/We do hereby declare that our Firm has not been blacklisted/debarred by any Govt. Department/Public Sector Undertaking.

6. I/We certify that all information furnished by the our Firm is true and correct and in the event the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,
(Signature of the Bidder, with Official Seal)

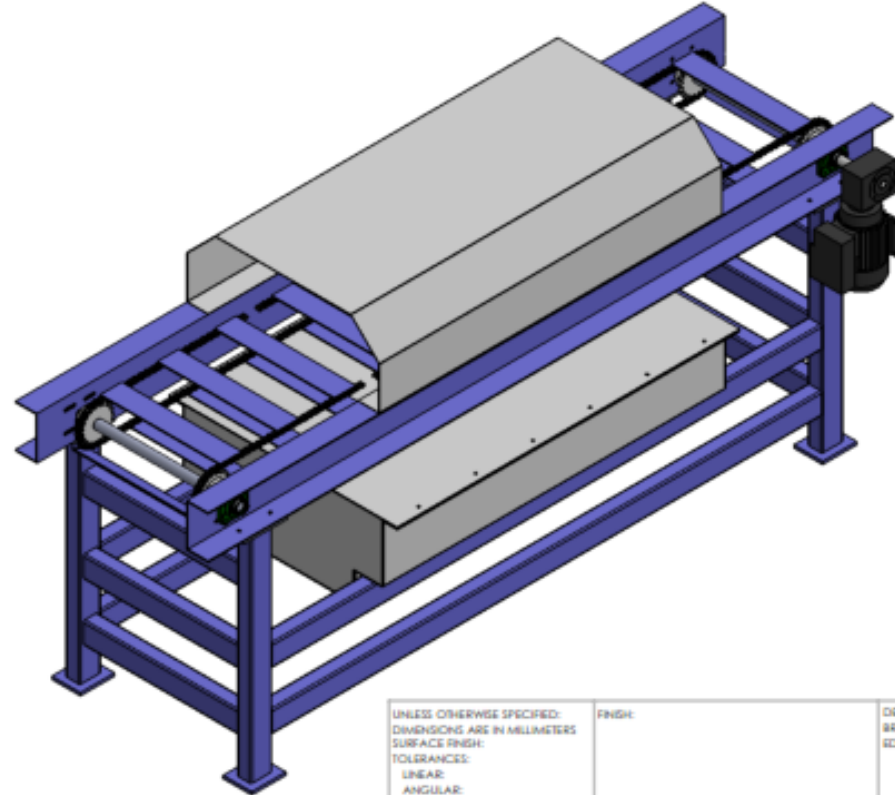
SPECIFICATION OF DIFFERENT MATERIALS/PARTS REQUIRED FOR FABRICATION OF THE PROPOSED CONTINUOUS STEAMING MACHINE FOR SAFO WAFER/SAGO PRODUCTION

S.No	Materials required	Specification	Quantity	Detailed diagram
1.	Belt conveying system			
	M.S.roller	32 mm OD with circular clip, bearing and lock nut	2	A
	Chain & sprocket	1:1 ratio 40 tooth ID machined with 25 for shaft size (4) and 0.5 inch chain 40 feet length with links and locks	1	
	Bearing blocks	Flange type FL204 bearing block (2) and T type with 12 mm key slot T 204 (2)	1	
	Mounting bracket	S.S tray mounts on chain interlinks	6	
	C frame with slots	3 mm thickness 8 feet length c type folding and laser cut holes & slots for bearing blocks	2	
	Conveyor Frame	Main support base frame with end plates & bottom base mount plate	1	
	Bevel gear accessories	100:1 ratio flange mount type output with 18 mm shaft	1	
	Flange mounting	Gearbox mounting plate attached with C frame of conveyor	1	
	Gearbox sprocket and drive shaft sprocket	Gearbox sprocket & roller sprocket with 1:1 ratio 13 teeth	1	
	Stainless steel	Water/steam pipelines, custom tray attachable with chain link mount frames folded corners with stainless steel 3 mm thickness perforated sheet.	1	
	Fasteners	6 mm key rods, circular clips, lock nuts, M8 and M10 concern length Allen bolts, nuts and washers	1	
	Power coating	All machine parts except stainless steel items	1	
Wheels	3 inch size rubber modular wheels with brakes for movement of equipments	4		
AC motor	150 W special custom motor 220 VAC, 800 RPM	1		
2.	Steaming generation system			
	Electrical boiler system	3 KW heaters (3) stainless steel tank 60 Litre capacity, regulators and sensors	1	B
	Frame & covers	Double concealed top and side cover using M.S. sheet for steam chamber with insulation & support frame with L channel	1	
	Pump	230 VAC, 0.5 HP pump with all required fittings and pipelines	1	
	Air blower	23 VAC motor with vacuum suction and output blower type recycling tube	1	

		from steam condensed to water back to boiler tank with auto timer function		
3.	Temperature and pressure monitoring system			
	Temperature controller	Temperature controller single channel with COM/NO/NC ports	2	-
	Thermocouple	J type 300 degree Celsius 2 probe stainless steel end	2	
	Sensor	Custom developed heat resistant type level indication digital signal output mode stainless steel material with 5 meter probe & 100mm length 8 mm rod	2	
	Solenoid valve	1 inch solenoid valve normally closed type 230VAC coil stainless steel material	1	
	Solenoid mount	Stainless steel U clamp with slotted holes for solenoid mounting on boiler system	1	
	Pressure gauge	Pressure gauge & safety pressure relief valve	1	
	Limit switch	Spring relief type with COM/NO/NC ports	2	
	Hand control pedant	4 way control pedant with stand & Emergency stop points	1	
4.	Electrical systems			
	Panel box	300mm x 300 mm x 150 mm with inner sheet	1	-
	3 pole contractor	230 VAC coil 16 Amps (2) & 230 VAC coil 9 Amps (1)	3	
	Fuse	Pump protection with DIN rail fuse monitoring with status illumination with additional safety 5 fuses	2	
	Electrical accessories	Panel box accessories which includes Duct, Din Rail, Ferrules, Marking, End pins & safety protection outer wiring house ETC.	1	
	Wiring accessories	6 Sq mm heat resistant wire 10 Meter, Porcelain connector, ceramic beats, 4 sq mm Lapp grey wire & internal panel wires	1	
	Switches and Indicators	Push button and selector switches with Illumination and output load functioning Indicators	1	

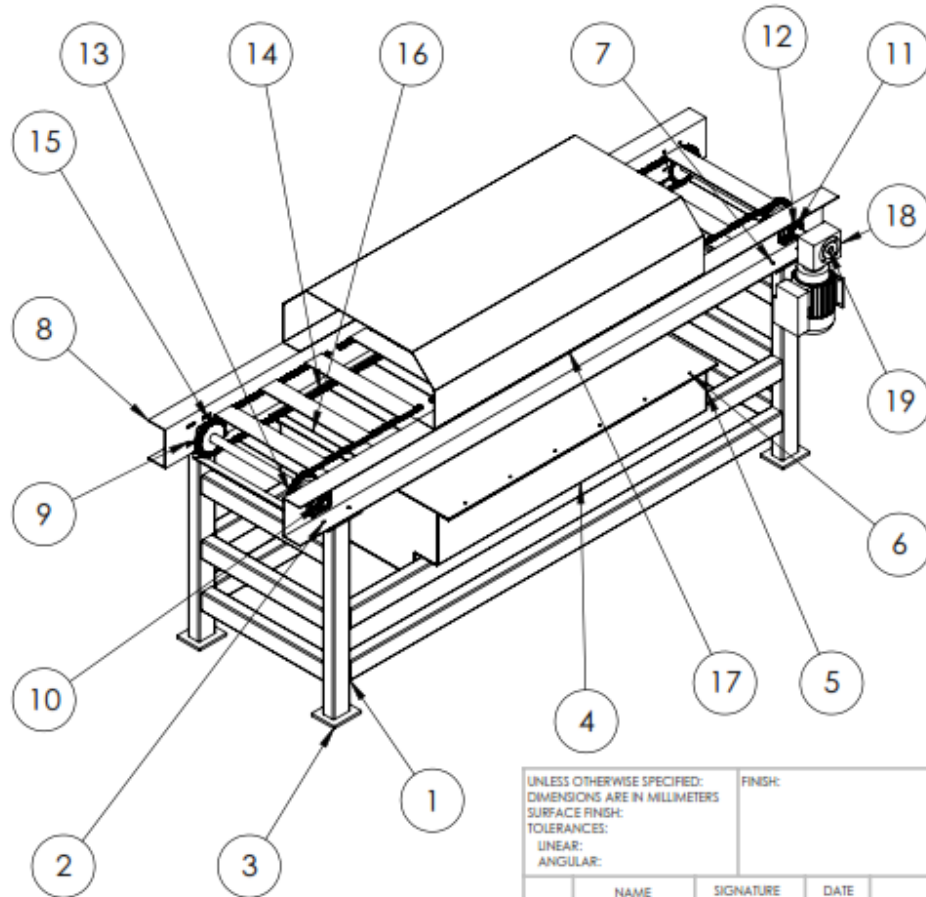
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CONCEPTUAL DESIGN



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
								TITLE:			
DRWN											
CHK'D											
APP'VD											
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Q.A						MATERIAL:		DWG NO.		A4	
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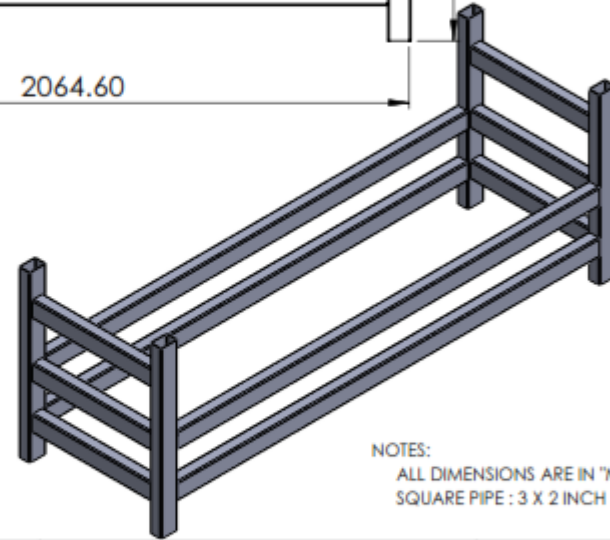
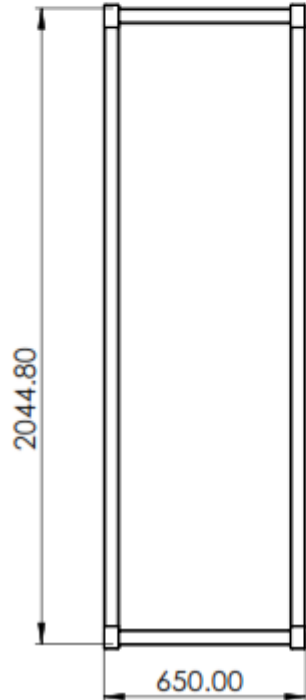
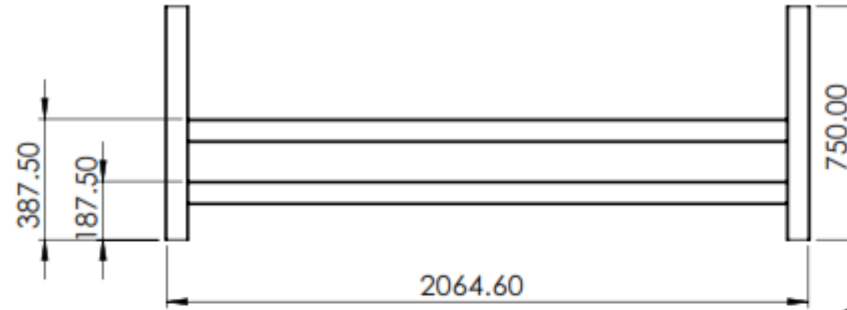
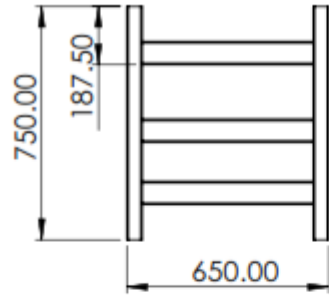


BILL OF MATERIALS:

ITEM NO.	PART NUMBER	QTY.
1	FRAME STRUCTURE - 1	1
2	BASE PLATE CF	4
3	BASE PLATE FS	4
4	WATER TANK	1
5	SIDE COVER WT	2
6	TANK TOP COVER SHHET	1
7	C - FRAME - 1	1
8	C- FRAME - 2	1
9	F205	4
10	ISO 4029 - M5 x 6-N	4
11	UC205	4
12	SHAFT - 1	2
13	SPROCKET	4
14	C- 1	228
15	C-2	228
16	PATTA - 1	23
17	CON TOP SHEET	1
18	motor	1
19	motor shaft	1

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DRAWN				NAME		SIGNATURE		DATE		TITLE: MACHINE TOTAL ASSEMBY BOM	
CHK'D											
APP'VD											
MFG											
Q.A								MATERIAL:		DWG NO.	
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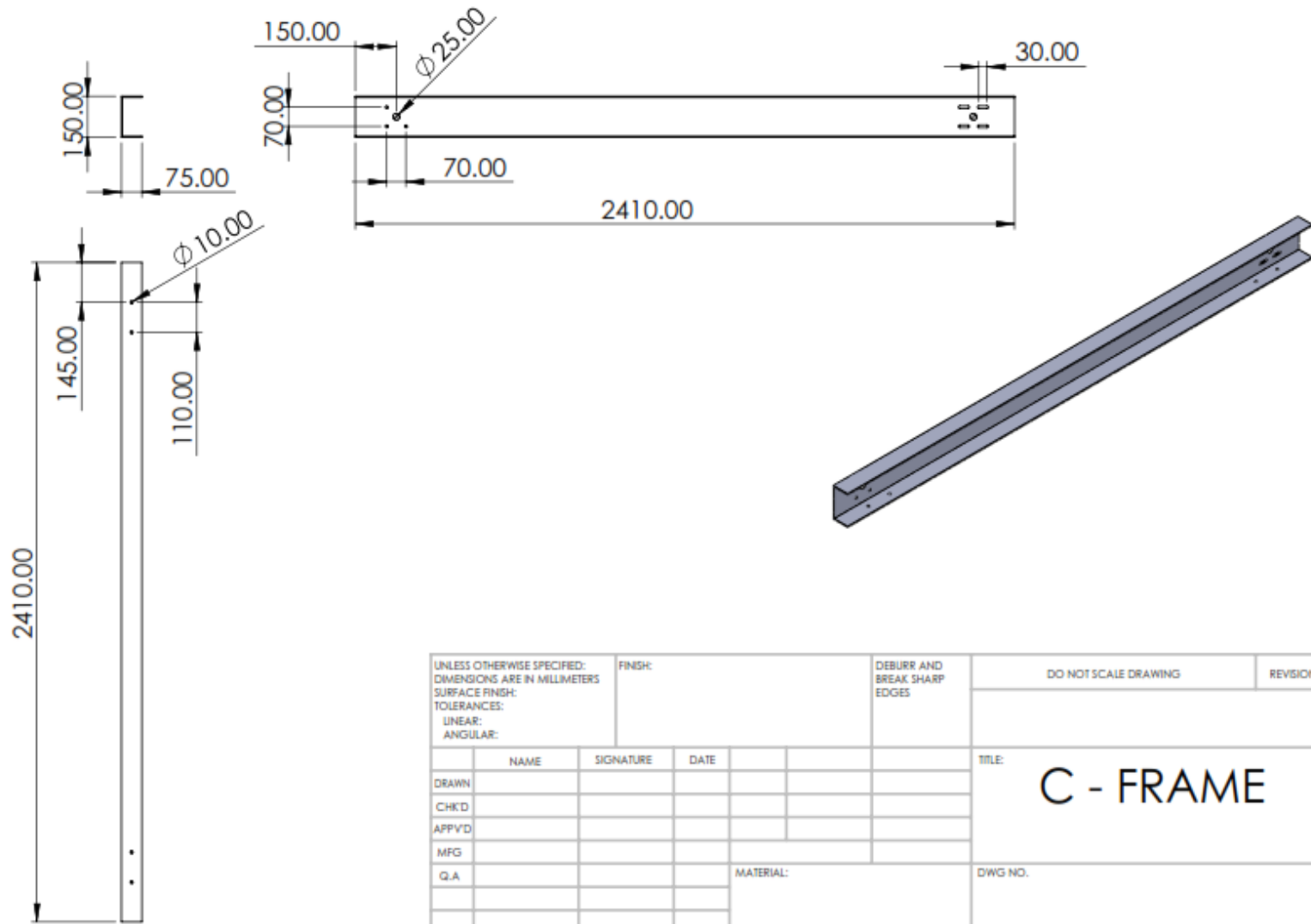
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NOTES:
ALL DIMENSIONS ARE IN "MM"
SQUARE PIPE : 3 X 2 INCH

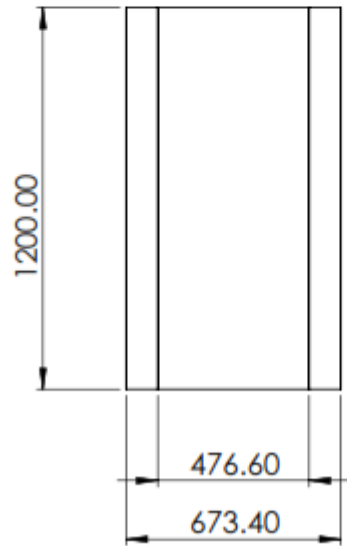
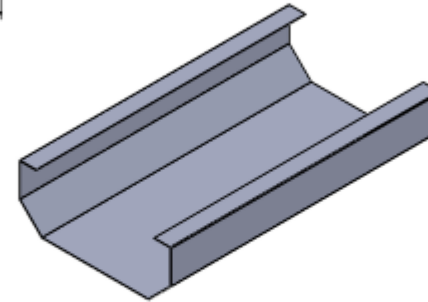
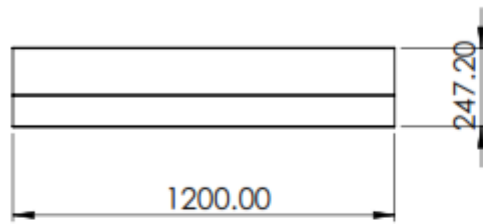
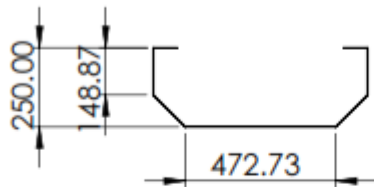
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DRAWN		SIGNATURE		DATE						A4	
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						SHEET 1 OF 1					

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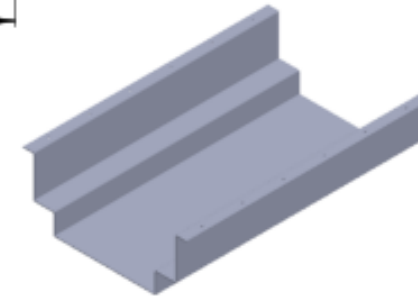
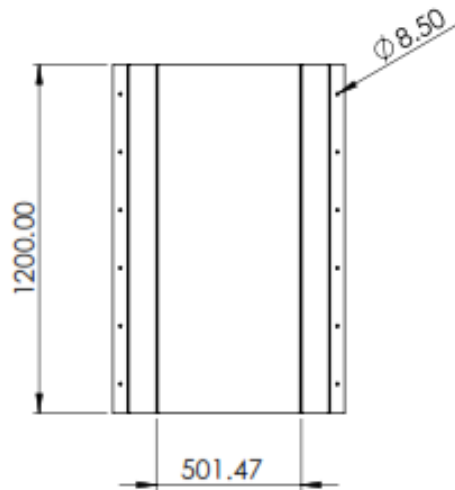
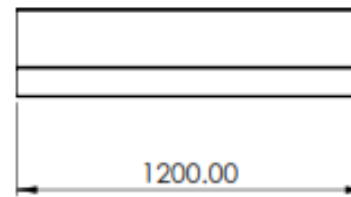
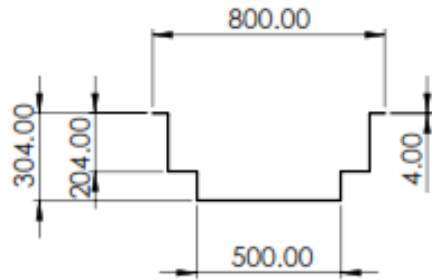
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						TITLE: C - FRAME					
DRAWN			SIGNATURE		DATE		MATERIAL:		DWG NO.		A4
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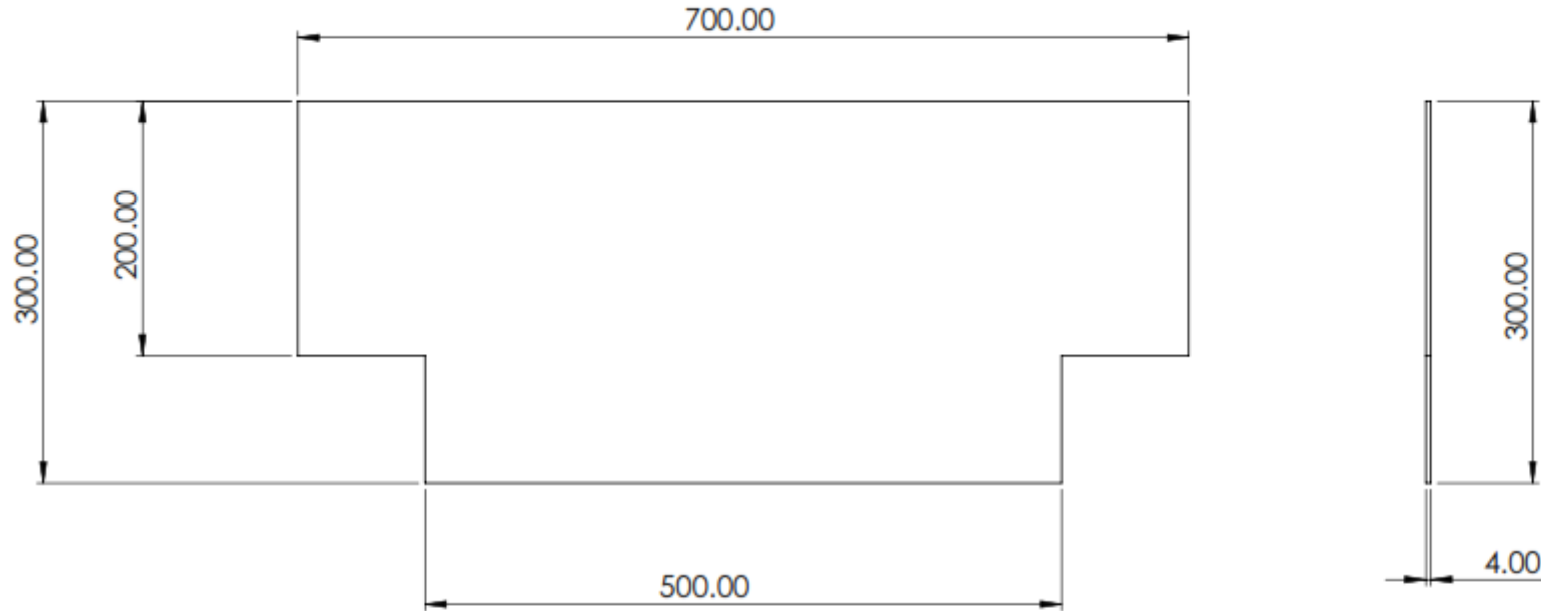
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DRAWN				NAME		SIGNATURE		DATE		TITLE: CONVEYOR TOP COVER SHEET	
CHK'D											
APP'VD											
MFG											
Q.A								MATERIAL:		DWG NO.	
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B



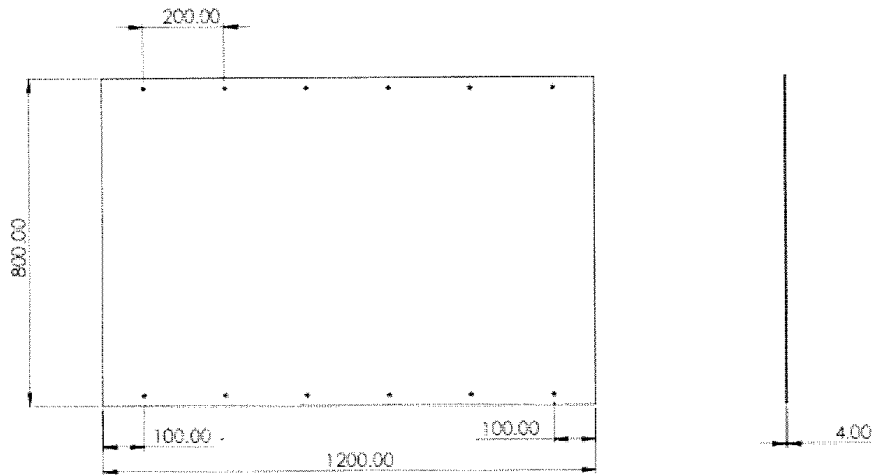
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DRAWN	NAME	SIGNATURE	DATE			TITLE: WATER TANK	
CHK'D							
APP'VD							
MFG							
Q.A					MATERIAL:	DWG NO.	A4
					WEIGHT:	SCALE: 1:20	SHEET 1 OF 1

B



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						TITLE: WATER TANK SIDE COVER					
DRAWN				NAME		SIGNATURE		DATE		DWG NO.	
CHK'D											
APP'VD											
MFG											
Q.A								MATERIAL:		A4	
								WEIGHT:		SCALE:1:5	
										SHEET 1 OF 1	

B



QTY	UNIT	DESCRIPTION	REMARKS
1	SHEET	TANK TOP COVER SHEET	

A4

[Signature]
Asst. Administrative Officer (Store)
Central Tuber Crops Research Institute
Sreekariyam, Thiruvananthapuram-695 011