

**CENTRAL UNIVERSITY OF PUNJAB  
RESEARCH & DEVELOPMENT  
FOUNDATION**


Not for Profit under Section 8 of the Companies Act, 2013

Tender No.: EOI-01(2023-24)



**Invitation of Bids for Design, Fabrication, Supply, Installation,  
Testing & Commissioning of Food Processing Unit**

Two-Stage Bidding  
(First Stage-Technical Bid)

Release Date :  05/02/2024

Last Date : 19/02/2024; 12:00PM

V.P.O. Ghudda, District-Bathinda- 151401  
E-mail: [cuprdf@cup.edu.in](mailto:cuprdf@cup.edu.in)

## Central University of Punjab Research & Development Foundation

Central University of Punjab Research & Development Foundation(CUPRDF) invites bids(Technical Bid-unpriced) through Central Public Procurement Portal (CPPP) from indigenous Original Equipment Manufacturers (OEMs)/Authorized Dealers for Design, Fabrication, Supply, Installation, Testing & Commissioning of Food Processing Unit.

<b>Tender Notice Number</b>	:	EOI-01 (2023-24)
<b>Release Date of the Tender</b>	:	05/02/2024
<b>Last date for the submission of Tender</b>	:	19/02/2024; 12:00PM
<b>Opening date of Tender</b>	:	20/02/2024; 12:00PM (In case tender opening day declared holiday for any reason the tender will be opened on next working day at same time.)
<b>Technical Discussion with eligible firms</b>	:	27/02/2024
<b>Name and Address of the Correspondence :</b>		CEO, Central University of Punjab Reserch & Development Foundation V.P.O. Ghudda, District, Bathinda – 151401, Punjab, India.
<b>E-Mail Address</b>	:	<a href="mailto:cuprdf@cup.edu.in">cuprdf@cup.edu.in</a> , <a href="mailto:ceo.cuprdf@cup.ac.in">ceo.cuprdf@cup.ac.in</a>

S. No.	Name of Services	Tender Fee (Non-Refundable)	Earnest Money Deposit (EMD)
1	Design, Fabrication, Supply, Installation, Testing & Commissioning of Food Processing (Detailed specification at Annexure -'B')	NIL	Rs. 250000/- <b>Through Online Mode only</b> (Bank Account details on Page 3)

**Note:**

The bidders registered with NSIC/MSME are exempted from EMD against submission of valid NSIC/MSME registration certificate

**EMD Exemption:** The bidder EMD exemption, must submit the valid supporting document for the relevant category. Under MSE category, only manufacturers for goods and service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

## GUIDELINES FOR PREPARATION AND SUBMISSION OF TENDER

### 1. Procedure for preparation of tender:-

- a) Prepare the tender document in order of the checklist attached at Annexure-(i). The checklist should be on top of the technical bid. All other annexures must follow in the same order within each envelop as specified in checklist. If the tender is not as per format, the same may be rejected without any further communication.
- b) The tender fee and EMD/Bid Security (if applicable and mentioned specifically) shall be deposited through NEFT/RTGS or other online transfer modes to designated bank account of the 'Central University of Punjab R & D Foundation, Bathinda'.
  - a) Account Name : Central University of Punjab R & D Foundation
  - b) Name of Bank : Union Bank of India, Ghudda
  - c) Account No. : 606201010050064
  - d) IFSC Code : UBIN0560626

### 2. Procedure for Submission of tender: Tender Process is on two stage bidding basis

In the first stage of the bidding process, bids are being invited through advertised tender enquiry on CPPP containing the technical aspects and contractual terms and conditions of the proposed procurement without a bid price. All first stage eligible bids, shall be evaluated through a committee. Further. Committee shall hold discussions with the eligible bidders for revising the relevant terms and conditions of the procurement, (if required), without modifying fundamental nature of the procurement.

**In the second stage of the bidding process, price bids will be invited through e-bids on CPPP from all those bidders whose bids at the first stage were not rejected, to present final bid with bid prices in response to original/revised set of terms and conditions of the procurement.**

**Bids shall be submitted online only at <https://eprocure.gov.in/eprocure/app> CUPRDF may request hard copy of supporting documents, if needed. CUPRDF reserves the right to reject the bid if requested documents are not submitted.**

#### Online tender submission:

- a) Online bid should be submitted at CPPP website: <https://eprocure.gov.in/eprocure/app>
- b) **The bidding process is online i.e. EMD, Technical Bid and Financial bid (3 envelope system) must be submitted online.** Bidders should be in possession of valid

Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above.

**3. Who can Bid-**

- a) Either the authorized agent on behalf of the Principal/OEM or Principal/OEM itself can bid.
- b) If an agent submits bid on behalf of a Principal/OEM along with the Authorization Certificate *with specifically mentioned validity of authorization* for this specific tender from the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item (s)/product (s). All bids other than those from the Principal/OEM should be supported by an authority letter from Principal/OEM authorizing the supplier to tender on their behalf. In case of Principal/OEM, a certificate or a self-certified copy thereof to the effect that the bidder is manufacturer of the equipment must be accompanied with the technical bid.



## GENERAL TERMS AND CONDITIONS

1. Technical compliance sheet for each item/instrument should be strictly as per tender format and signed & stamped on each page and not just cut /copy paste and should provide brochure mentioning item(s) with detailed information.
2. The tenders received without earnest money (if applicable) or misleading information or tender not submitted as per guidelines will be out-rightly rejected.
3. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached along with other documents.
4. Apart from all these terms and conditions, specific terms as specified for each instrument must also be complied with.
5. The tenders qualifying in technical evaluation will only be considered for financial evaluations. The price bid of others (who are not successful in technical evaluation) will not be considered. Financial bids of only technically acceptable offers shall be opened for further evaluation and ranking for the purpose of awarding the contract.
6. Bidders are advised to visit this website regularly to keep themselves updated, for any changes/modifications in the Tender Enquiry Document.
7. **Right to reject:** The CUPB reserves right to accept/reject any or all the Tenders at any time without assigning any reason.
8. **Delivery Schedule:** Services/results/reports to be provided within 06 weeks from the date of initial QCreport submission.
9. **Civil Suit Jurisdiction:** All legal proceedings in connection with this Supply/Purchase order/Contract shall be subject to the territorial jurisdiction of the local Civil Courts, as per Indian Laws, at Bathinda only.
10. **Cancellation :** The University reserves the right to cancel the Supply/purchase order as a whole or in part at any time or in the event of default on the part of the Supplier prior to the receipt of information regarding taking in hand of the manufacture of material against the Supply/Purchase order/dispatch of material to the consignee.

**Place:**

**Signature of Authorized Person**

**Date:**

**Designation**



**Seal**

## FINANCIAL TERMS AND CONDITIONS

1. **Prices:** Quoted prices of Services/equipment should be firm, inclusive of insurance, loading/unloading charges and FOR Central University of Punjab R & D Foundation (CUPRDF), V.P.O. Ghudda, District Bathinda.
2. **Acceptance of Terms & Conditions:** Bidders must confirm the acceptance of all the terms and conditions of this tender. Non-acceptance or deviations from the terms and conditions must be clearly mentioned. However, tenderers must note carefully that any conditional offer or any deviation from the terms and conditions of this tender enquiry may render the bids liable for rejection.
3. MSE Purchase Preference as per “**Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012**” shall be applicable.
4. **MII (Make in India):** Public Procurement (Preference to Make in India) as per Ministry of Commerce and Industry, Public Procurement Section order No. P-45021/2/2017-PP (BE-II) dated 4th June 2020. Certificate regarding Local Content to be submitted by bidder firm. ***Only Class-I & Class-II Local suppliers as per MII order will be eligible to bid. Non-Local suppliers as per MII Order dated 04.06.2020 are not eligible to participate.***
5. **Payment:** 70% payment will be made through RTGS/by cheque after the successful supply of equipment(s) against PBG. Remaining 30% will be made after the installation, testing & commissioning of food processing unit and report of the inspection committee/committee of experts.
6. **Penalty for non/late delivery of material:** If the Supplier fails to deliver the material/equipment/results/reports within the specified delivery period of the Purchase order, the same is liable to be rejected and if accepted the supplier shall be liable to pay penalty @0.5 per cent (half of one percent) per week (or part thereof) of the cost of undelivered supply/incomplete equipment, not exceeding maximum limit of 10 per cent of the cost of complete unit of undelivered material/equipment so delayed.
7. **Extension in delivery period:** Any genuine delay in approval of technical details drawings, samples, issuance of amendments of the purchase order, conducting inspection and approval of inspection, Test Report/Test Certificate for allowing dispatches etc., will count towards extension of the delivery by the corresponding period other than admissible under Force Majeure conditions, if any substantiated by the supplier and duly accepted by the purchaser.
8. **Security Deposit/PBG:**
  - a. Firm/bidder/Supplier is required to submit security deposit @5% of the order value in the shape FDR/PBG favouring Central University of Punjab R & D Foundation and valid for Guarantee/Warranty period + 60 days within 30 days from the date of acceptance of Purchase Order. Failure to submit security deposit in the stipulated time will lead to forfeiture of EMD.

- b. On faithful execution of the purchase order/contract on all respects, including warranty period, the security deposit of the contractors/supplier shall be released.
- c. In the event of default on your part in faithful execution of Supply/Work order/contract, the security deposit shall be forfeited by an order of the Registrar of the University. The forfeiture of security deposit shall be without prejudice to any other right arising or accruing to the university under relevant provisions of the Supply/Work Order/contract, like – recovery of penalty/damages for delay as per delivery provisions, under Negligence & default clause, including suspension of business dealings with the bidder which could extend for a specific period.

**9. Arbitration:**

- a. If, at any time, any question dispute or difference of whatsoever nature arise between the purchaser/University and the bidder/contractor/supplier, upon or in relation to or in connection with purchase order/contract, either party may forthwith give to the other notice in writing of the existence of such question dispute or difference and the same shall be referred to sole arbitration of a nominee of the purchaser/University, who shall give a reasoned/speaking awards. The award of the sole arbitrator shall be final and binding on the parties under the provisions of the Indian Arbitration Act-1996(Amended up to date) and of the rules, there under. Any statutory amendment, modification or re-enactment thereof for the time being in force, shall be deemed to apply and be incorporated in the contract/purchase order. The sole Arbitrator shall be any officer of the University whose name is approved by the Vice Chancellor. It will not be objectionable if the Sole arbitrator is an officer of the university and he has expressed his views on all or any of the matter in question of dispute or difference.
- b. Upon every or any such reference, the cost of and incidental to the reference and award respectively shall be in the discretion of the sole arbitrator so appointed who may determine the amount there of or direct the same to be fixed as between the solicitor and client or as between party and shall direct by whom & to whom and in what manner the same is to be borne and paid.
- c. The work under the contract shall, if reasonable possible continue/during the arbitration n proceedings and no payment due or payable by the purchaser/university shall be withheld on account of such proceedings.

10. **Parts of Equipment:** Where the equipment is composed of several separately marketable subunits/components/assemblies, the rate should be quoted for each subunit/ component. The University reserves the right to increase or decrease the number of subunits/ components and number of equipment according to its requirements. The rates in ambiguous terms will render the bids liable to rejection. The words “Not quoting” should be clearly written against any item of equipment for which the tenderer is not quoting.

11. **Validity:** Tenders should be valid for 6 months from the last/due date of tender submission.

12. **Warranty:** One Year included price evaluation and AMC for the next two years would be awarded on pro rata basis. AMC would comprise of three maintenance visits & all breakdown visits during the period of AMC.

13. **Installation:** Installation and Training for usage of the equipment under purchase will be of free of cost.

14. **Indigenous items:** The items which can/are to be provided indigenously may be listed

separately. Such items, along with those imported items which are supplied by authorised Indian agent of overseas Principal/OEM, should be quoted in INR only.

15. **Country of Origin:** Country of origin of the quoted item should be mentioned in the offer in case of Import item(s).

**Place:**

**Signature of Authorized Person**

**Date:**

**Designation**

**Seal**





## Annexure - (i)

## CHECK LIST

## Documents for Technical Bid -Envelope 2

Sr. No.	Checklist on top of the technical bid	Yes/No
1.	Application Form	Annexure A
2.	Technical Specification	Annexure B
3.	Non Blacklisting of supplier	Annexure C
4.	Performa For User List	Annexure D
5.	Declaration of Supplier	Annexure E
6.	Rate Reasonability Certificate	Annexure F
7.	<b>Certificate regarding (MII) Local Content to be submitted by bidder firm.</b>	Annexure G
8.	Past performance (execution of similar project with value in atleast one of the last three financial years before the bid opening date to any Central/State Government organization/PSU/Public listed Company.	
9.	(i) Copy of contract alongwith invoice and self certification by the bidder regarding successful execution of project (ii) Execution certificate by client with contract value. (iii) Any other document in support of contract execution like third party inspection etc.	
10.	Authorization Certificate <i>with specifically mentioned validity of authorization</i> for this specific tender from the Principal/OEM	
11.	Copy of PAN & GSTIN	
12.	Copy of income tax return for last 3 years	
13.	The printed literature and catalogue/brochure giving full technical details should be provided/ included with the technical bid to verify the specifications quoted in the tender.	
14.	Tenders must accompany a copy of the <b>“Financial Terms and Conditions”</b> section of this document, signed and stamped on each page indicating that they agree to these and mention that in future they will not take any action against these terms and conditions.	

## Documents for Financial Bid

1	Format of BOQ (Bill of Quantity) available on CPPP. This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only. Quoted prices of equipment (either imported or indigenous, as the case may be) should be firm, inclusive of insurance, loading/unloading charges and FOR Central University of Punjab (CUPB), V.P.O. Ghudda, District Bathinda.) -Prices: Quoted prices of equipment (either imported or indigenous, as the case may be) should be firm, inclusive of insurance, loading/unloading charges and FOR Central University of Punjab (CUPB), V.P.O. Ghudda, District Bathinda.	<b>Only online on CPPP.</b>
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Place:

Signature of Authorized Person

Date:

Designation

Seal

**Annexure A**

**APPLICATION FORM**

To be Filled Completely and Signed (**should be on letterhead of bidder**)

1. Contact details of the head office of proposing firm:
  - a. Name-
  - b. Address-
  - c. Tel. No.-
  - d. Fax -
  - e. Email -
  - f. Web site (If any)
2. Name and full address of local office of proposing firm nearest to Bathinda:
  - a. Name-
  - b. Address-
  - c. Tel. No.-
  - d. Fax -
  - e. Email -
  - f. Web site (If any)
3. Name and full address of manufacturer:
  - a. Name-
  - b. Address-
  - c. Tel. No.-
  - d. Fax -
  - e. Email -
  - f. Web site (If any)
4. Name of advising bank and account number:
5. SWIFT Code:
6. PAN, GST and TAN Number:
7. Manufacturing type (tick mark):
  - i. Import
  - ii. Indigenous
  - iii. Both
8. Country(s) of origin:
9. Any other relevant information:



**Annexure B****TECHNICAL SPECIFICATIONS OF THE EQUIPMENT / ITEM(S) / MACHINE/ SERVICES**

Name of the Equipment / Item(s)/Services : Design, Fabrication, Supply, Installation, Testing & Commissioning of Food Processing Unit

Name of the Manufacturer \_\_\_\_\_

County of Origin \_\_\_\_\_

**SPECIFICATIONS**

Sr. No.	Name of equipments/instruments	Qty.
1	1. Fruit Washer 2. Pulper 3. Raw Juice collection Tank 4. Hydraulic Press {Juice Extractor} 5. Screw Press 6. Filter Press 7. Insulated Filling Pulp Collection Tanks 8. Bottle Washer 9. Blancher 10. Steam Jacketed Machine 11. Crown Cork Sealing Machine 12. Fermentation Tanks 13. Fruit Retention Tester 14. Boiler Setup 15. Sorter 16. Grader 17. Peeler {Ginger,potato and Gralic} 18. Cutter 19. Kiln drier/tray drier {with tray} 20. Induction 21. Vacuum Sealing {batch/continuous} 22. Hand Sealing	01 (One) Each
<b>Warranty</b>		<b>One Year</b>
	AMC	<b>1<sup>st</sup> Year after expiring of Warranty term</b>
	AMC	<b>2<sup>nd</sup> Year after expiring of Warranty term</b>

**Terms and Conditions-**

- Delivery and installation:** 8 weeks from the date of award of contract.
- Validity:** Tenders should be valid for 6 months from the last/due date of tender submission.
- Prices:** Quoted prices of equipment/Services (either imported or indigenous, as the case may be) should be firm, inclusive of insurance, loading/unloading charges and FOR Central University of Punjab (CUPB), V.P.O. Ghudda, District Bathinda.

**Place:**

**Signature of Authorized Person**

**Date:**

**Designation**

**Seal**

**FORMAT FOR NON-BLACKLISTING OF SUPPLIER**

I/ We \_\_\_\_\_Manufacturer/Authorized Distributor/Agent (strike out which is not applicable) of (Supplier) \_\_\_\_\_do hereby declare and solemnly affirm that our firm/company is never black-listed by the Union/State Government/Autonomous body.

Deponent  
Address

\_\_\_\_\_

I/ We hereby solemnly declare and affirm that the above declaration is true and correct to the best of my/our knowledge and belief. No part of it is false and nothing has been concealed.

Deponent  
Dated:



**Annexure D**

**PROFORMA FOR USER LIST**

Sl. No.	Name & full address of purchaser	Purchase Order No. & Date	Year of Purchasing	No. of Units (Qty.)	Model No. with Date of Installation	Contact person with cell, phone and email id

**Place:**

**Signature of Authorized Person**

**Date:**

**Designation**



**Seal**

**Annexure E**

**DECLARATION BY SUPPLIER**

“It is certified that I/we have carefully read and understood the entire general, special as well as specific terms and conditions of these documents and agree to abide by all of these. All the information and commitments provided with the bids are truthful and binding on the firm.”

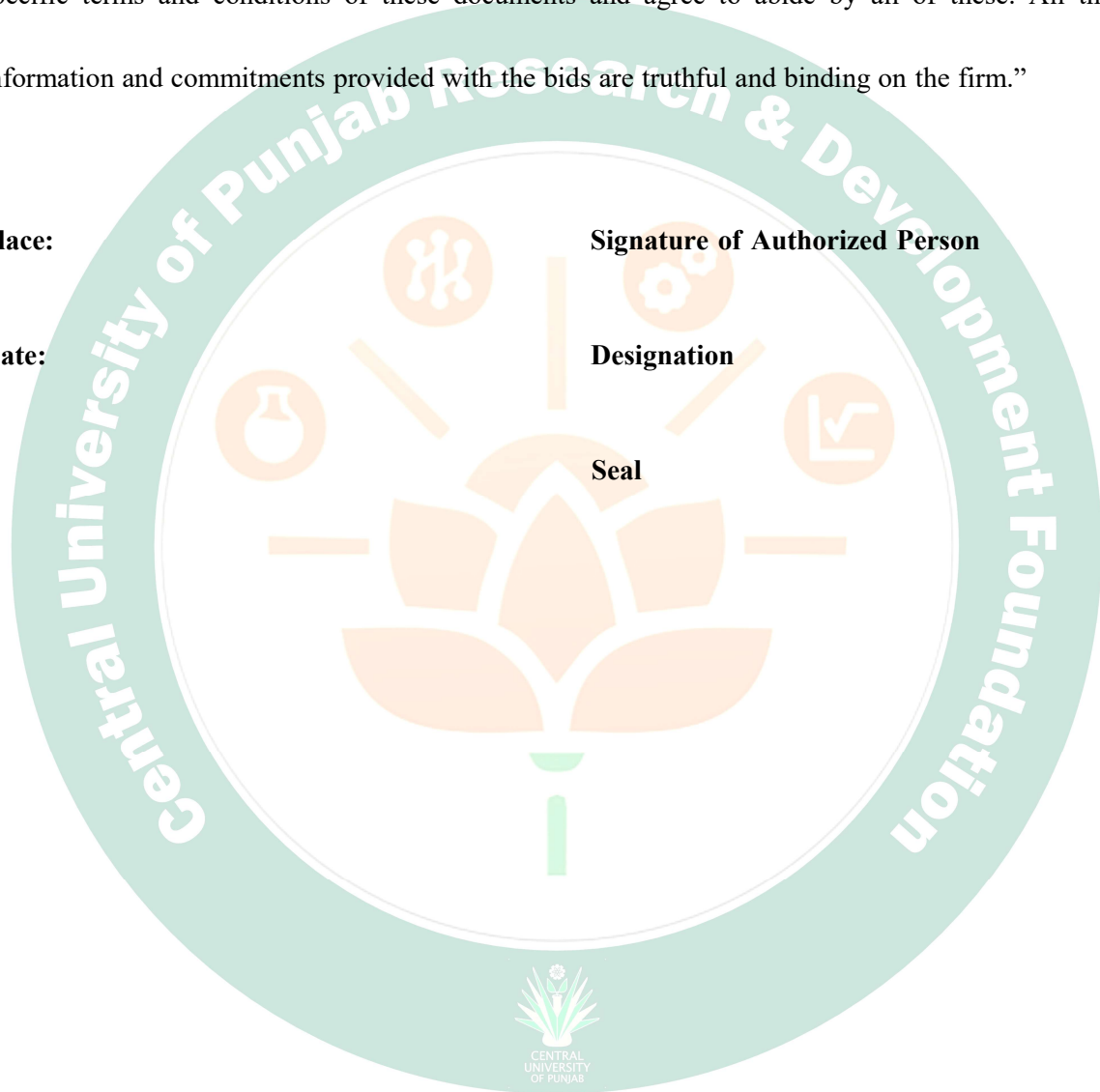
**Place:**

**Signature of Authorized Person**

**Date:**

**Designation**

**Seal**



**Annexure F**

**RATE REASONABILITY CERTIFICATE**

“Prices being charged from Central University of Punjab Research & Development Foundation, Bathinda are not higher than the prices charged from other Govt./Semi-Govt./Private/ Autonomous/Similar Institutions. If at any stage discrepancies found in rates quoted to Central University of Punjab R & D Foundation, Bathinda, we hereby agree to pay back equivalent amount along with interest there upon as per prevalent market rates to CUPRDF”.

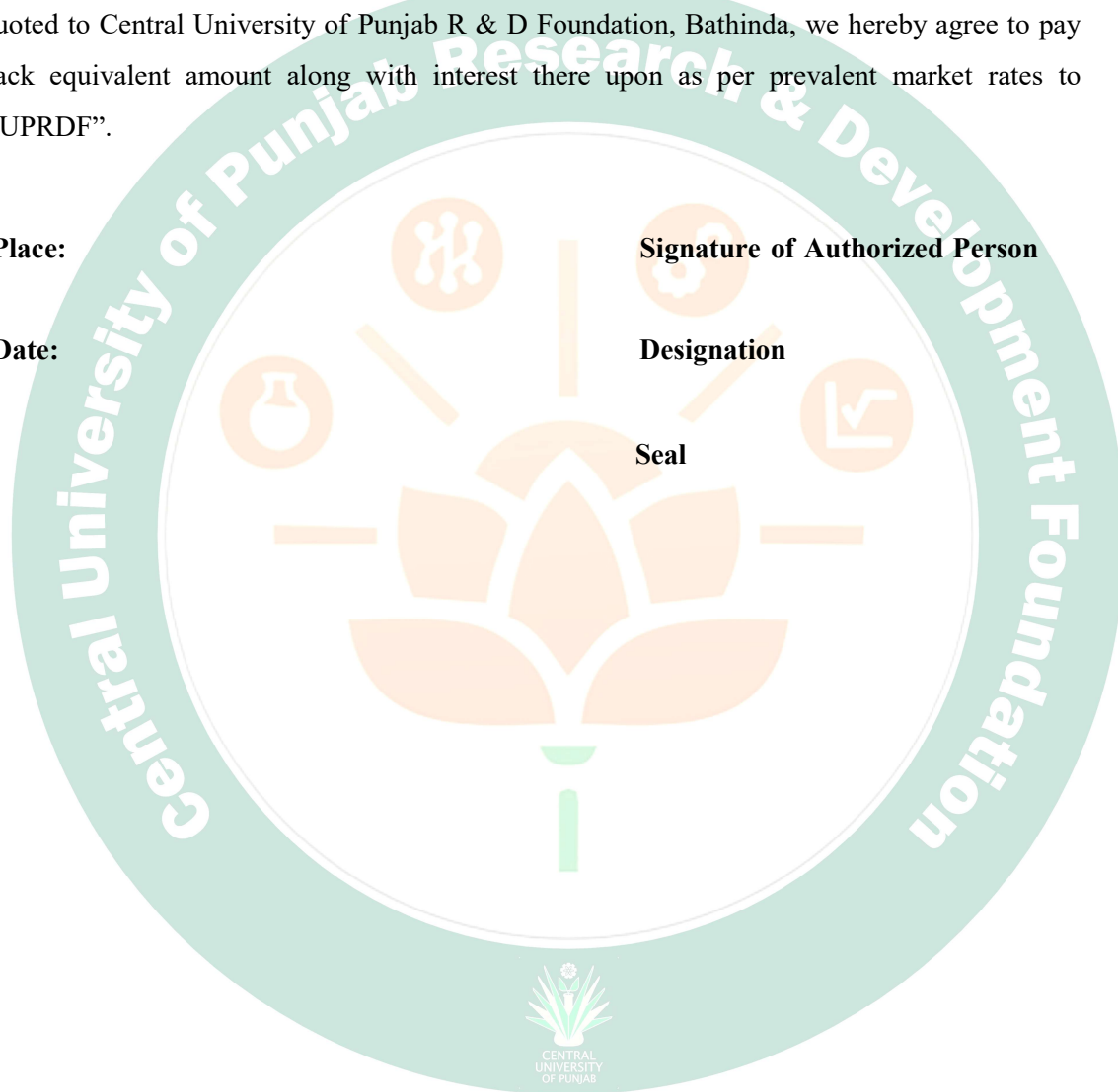
**Place:**

**Signature of Authorized Person**

**Date:**

**Designation**

**Seal**



**Annexure-G**

**Make-in-India (MII) Local supplier certificate (as per order No P-45021/2/2017-PP (BE-II) by DPIIT, Ministry of Commerce and Industry, GoI.)**

**Bid number:** \_\_\_\_\_

**Name of the item(s):** \_\_\_\_\_

I/We certify that the item(s) offered meets the local content requirement for

- Class I Local supplier (Minimum 50% of local content)
- Class II Local supplier (Minimum 20%, but less than 50%, of local content)

(Select one of the above and strike off the other)

Percentage of local content in the all quoted product(s) is \_\_\_\_\_

Details of the location(s) at which local value addition made:

\_\_\_\_\_  
(Site/facility address where local value addition is made)

**Place:**

**Date:**

**Signature of Authorized Person**

**Designation**

**Seal**





**Technical Specifications for Installation, Assembly, Commissioning**  
**Training and Maintenance of a**  
**FOOD PROCESSING PLANT**

There is a requirement of a food processing plant to be set up for upto 100 Kg of fruit/vegetable in the incubation centre. The system requirements are

1. Automated Fruit washer – 01 No.
2. Automated vegetable washing and peeling – 01 No.
3. Pulper – 01 No.
4. Raw Juice Collection Tank – 02 No
5. Hydraulic Press (Juice Extractor) – 01 No.
6. Insulated Tank for Pulp Collection – 01 No.
7. Filter Press – 01 No.
8. Dehydrator/ Tray Dryer – 01 No.
9. Vegetable Cutting Machine – 01 No.
10. Semi Automatic Induction Sealing Machine –Table Top – 01 No.
11. Manual Sealing Machine – 01 No.
12. Vacuum Pump Sealing Machine Single Chamber – 01 No.
13. Bottle Washing Machine – 01 No.
14. Blancher – 01 No.
15. Steam Jacketed Kettle – 01 No.
16. Fruit Grader – 01 No.
17. Fruit retention tester cum Inspection Roller Conveyor – 01 No.
18. Boiler and set up – 01 No.
19. Fermentation Tank – 01 No.
20. Crown cork Sealing Machine
21. Screw press
22. Sorter

The specifications for the above said components of the plant are as follows

**(A) Technical Specifications of Fruit Washer**

- Fruit washer should be brush type



- Structure should be of ISI MS
- Should be MS fabricated and Powder Coated
- Overall length should be between 1900mm-2000mm
- The total rollers should be 15
- The no of nylon rollers should be 8
- The no of sponge rollers should be 7
- The water spray system should be provided with 0.5 HP Pump and the pipeline should be of SS Material
- The quality of the waste water collection tank should be SS 304
- The power for the equipment should be 0.5-0.75 HP, 3 Ph

### **(B) Technical Specification of Vegetable Washing and Peeling Machine**

- The length of the roller should be between 750 mm to 800 mm
- The capacity of the peeler equipment should be 90-100 kg per batch
- Power consumption for the equipment should be 0.75KW, 220 v
- Should be useful to peel the vegetables like Potato, Root Vegetables, Onions, Carrots Ginger etc
- There should be a provision in the machine to hold the material as per user requirement, depends upon the degree of washing
- Discharge for the material should be manual to take the material out of the machine after the required degree of washing is obtained.

### **(C) Technical Specification of Pulper**

- The Capacity for the equipment per hour should be 100 Kg
- All contacts parts should be made of Stainless Steel AIAI-304
- The equipment should be mounted on MS Frame duly fitter with 1 HP/3ph Motor  
Should be supplied with set of sieve and canvas impeller

### **(D) Raw Juice Collection Tank**

- The Tank should be made of SS 304 and capacity for the same should be 100 Ltrs.

*AAH*

*JR*

*RKC*

**(E) Hydraulic Press (Juice Extractor)**

- The rack should be made of seasoned teak wood
- The equipment should be enabled with 3HP/3ph motor and hydraulic pump with automatic pressure control.
- The Equipment should develop the pressure for the purpose of making juice of Hard products like pomegranate, Grapes, Apple, Pineapple, Amala, etc.
- It should be complete with 4Nos. hydraulic loth and 4Nos. wooden rack
- Equipment should be made of complete MS material.

**(F) Insulated Tank for Pulp Collection**

- SS 304 Vertical conical tank. Double jacketed Insulated tank. Capacity 50 Lt.

**(G) Filter Press**

- The Equipment should be complete made of SS304
- It should be Complete Stainless Steel stand with fibre wheels and SS cover, equipped with 1hp/3ph motor and pump.
- Capacity for the equipment should be 50 Litres/hr
- Basket type filter press complete with tank and transfer pump Filter Press used for crystal clear filtration of Natural plant products, fruit juices, pharmaceuticals, chemicals, beverages and other filtration purpose Provided with bypass system & safety valve.

**(H) Dehydrator/ Tray Dryer**

- Should be supplied with at least 32 trays
- Should be used for drying various fruits, Vegetables, Herbs etc
- It should be temperature Controlled
- The material of the trays should be SS304 and size should be 500x600mm
- There should be Hot Circulation for Uniform Heating
- Should be enabled with moisture vents for different product requirements
- The silicon rubbers should be heat resistant to prevent heat loss
- The inner and outer body should be Stainless steel

*Handwritten signatures in blue ink:*  
A. H. M. T.  
J. B.  
R. K. S.

- Should be enabled with wheels at bottom for convenient movement of dryer
- Size should be compact and low noise
- Consumption for the power should be 6 KW 380V
- The approx dimension should be 1500x750x1660mm

**(I) Vegetable Cutting Machine**

- Capacity for the machine should be 200-250 kg/kg approx
- Should be suitable for Beans, Okra, Root Vegetable, Potato, Onion, Ginger etc
- The Machine should be made of stainless steel
- Should be enabled with Variable slicing cutting size
- Should be enabled with variable conveyor speed
- Power consumption should be 2HP, 380 V

**(J) Semi-Automatic Sealing Machine –Table Top**

- Should be enabled with variable speed conveyor
- It should be table top and size should be 130 mm
- Should be made of MS body
- The height of the machine should be adjustable
- Should be enabled with air cooling system
- Consumption for the power should not more than 220v/50 hr-1.5 w

**(K) Manual Induction Sealer**

- The diameter of the sealing should be upto 100mm
- Capacity should be 10-50 seals/min
- Power consumption should not be more than 220v/50 Hz-500 W

**(L) Vacuum Pump Sealing Machine Single Chamber**

- The machine should be supplied with vacuum pump and controlled should with the pump.
- Should be enabled with Double side sealing
- The Top should be covered with Acrylic





- The MOC Should be made of SS304
- Sealing length should be 400 mm
- Sealing width Should be 10mm

### **(M) Bottle Washing Machine**

- Should be made of MS with 2 Head Brushers and ½ HP Motor should be attached.
- The rinsing Tank should be GI and suitable for brushing new or recycled bottles
- The Brushes should reach the corner and crevices of bottles to remove dust particles.

### **(N) Blancher**

- Should be made of SS304
- Size of the tank should be 4'x4'x2'
- Capacity should be 100 Kg/ Batch
- Should be mounted on SS legs for easy to reach
- Should be enables with steam inlet and water outlet with four baskets.

### **(O) Steam Jacketed Kettle**

- Capacity Should be 100kg/batch
- Should be mounted on a mild steel stand with tilting arrangement through worm gear/pinion
- Kettle should be made of SS-304
- Jacket and pan should be made of 10/12swg
- Should be enabled with pressure gauge safety valve and steam trap
- The kettles should be double jacketed for maximum steam utilization and efficiency

### **(P) Fermentation Tank**

- Should be made of SS304
- The thickness of the sheet should be 2mm
- The Tank should be vertical
- Should be top close type with main hole on top, conical bottom and bottom discharge

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*Handwritten initials*

*Handwritten initials*

- Should be equipped with 0.5 HP gear motor for agitator

**(Q) Boiler and set up**

- The Boiler should be Diesel fired
- The Capacity Should be 100 Kg/Hr
- Should be equipped with Semi/Automatic Non IBR straight water tubes Hot Water Generator having MS tubes
- The Hot water generator quality tubes fitted in a shell with water feed system (Pump and motor)
- Should be equipped with diesel firing system with standard hot water generator accessories with motor and air blower also with a motor, pressure gauge, safety valves, internal pipe lining and electrical fittings with a very efficient oil burner for a very long life span and trouble free service.
- Should be assembled with a pipe line from water softener to Hot Water Generator
- A Steam line from Hot Water Generator to the plant

**(R) Fruit Retention Tester Roller Conveyor**

- Should be fabricated form MS powder coated sheet metal. Frames should be made of MS
- Overall length should be between 2300-2400 mm
- The width of the conveyor should be 600 mm of roller
- The roller should be made of SS 304, 48 mm OD
- Drive should be 0.75KW,3ph

**(S) Fruit Grader**

- It should be CNC fabricated MS sheet Metal with Powder Coating finish. The framework should be heavy duty of MS structural members of different sections
- Overall length should be between 3600 mm- 3700 mm
- Belt width should be 250 mm
- Belt should be PVC green
- Rollers should be made of Nylon core with Rubber coating
- The no of sizes should be 6

*AS*

*JB*

*RKS*

- The packing Trays should be rubber coated and 6 Nos should atleast be supplied
- The power consumption should not more than 1 HP, Single Phase Ph

**(T) Specific Requirements of the Work Order**

1. The work area would be provided having a dimension of where the facility needs to be created.
2. Maintenance work for drawing electricity, water and civil works would be carried out by the bidder allotted the work order. However, the supply upto the facility for water and electricity would be provided by the iTBI, CUP, Bathinda.
3. Warranty of atleast 2 years is desired from the date of commissioning.

