



सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिक अनुसंधान संस्थान  
CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE  
मैसूरु / MYSURU-570 020, भारत / INDIA

(Constituent Laboratory of CSIR, New Delhi (Ministry of Science & Technology)  
An ISO 9001:2008, ISO 14001:2004 & ISO 17025:2005, NABL Accredited Laboratory

सं. /No. CFTRI /74180/2020

दिनांक / Date: 14<sup>th</sup> August 2020

**NOTICE INVITING TENDER**

क्रम सं. Sl. No.	निविदा संदर्भ Tender Reference	विवरण / Description
1	CFTRI/74180/2020	Extruder Line – 1No.

1. Director, CSIR-CFTRI, Mysuru invites tenders for supply, installation & commissioning and satisfactory demonstration of Extruder Line – 1No.
2. **Pre Bid conference is scheduled on 20.08.2020 at 10.30a.m at CSIR-CFTRI, Mysore**
3. Last date for submission of Tender is 2.00 P.M. (IST) on 01 /September/ 2020 on line in etender.gov.in.
4. Bid Security(EMD) Rs. 200,000.00
5. Technical Bid Opening on line in etender portal at 2.30P.M(IST) on 02/September/ 2020

हस्ता./Sd/-

अनुभाग अधिकारी (भंडार एवं क्रय)

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**CRITICAL DATE SHEET**

**CRITICAL DATE SHEET:**

**Tender Ref/No. CFTRI/74180/2020**

<b>Sl.No.</b>	<b>Stage</b>	<b>Date &amp; Time</b>
<b>1</b>	<b>Publish Date &amp; Time</b>	<b>14/08/2020 @ 6.00p.m.</b>
<b>2</b>	<b>Document Download Start Date &amp; Time</b>	<b>14/08/2020 @ 6.00p.m.</b>
<b>3</b>	<b>Pre Bid Conference</b>	<b>20/08/2020 @ 10.30a.m</b>
<b>3</b>	<b>Bid submission Start Date &amp; Time</b>	<b>21/08/2020 @ 05.30p.m.</b>
<b>4</b>	<b>Bid submission End Date &amp; Time</b>	<b>01/09/2020 @ 2.00p.m.</b>
<b>5</b>	<b>Bid Opening Date &amp; Time</b>	<b>02/09/2020 @ 2.30p.m.</b>

# **EXTRUDER LINE**

## **Technical Specification of Machinery**

### **1. Hammer Mill (Fixed Hammer)**

- Capacity : 100-200 kg/h
- Electric Motor : 10-12 kW / 3 Ph, 440 VAC / 50 Hz
- Material : SS-304 grade
- Hammer Speed : 2880~3000 rpm
- To have interchangeable sieves of size Upto 1mm
- Quantity : One No.
- The supply to have necessary electrical control panel with necessary electrical safety devices.

### **2. Screw conveyor**

- Capacity of discharge : 75-100 kg/h
- Diameter : 100 mm
- Length : 3.05 Meter (10 feet)
- Type : Inclined
- Material of contact : SS-304 grade
- Power : 1 kW / 3 Ph, 440 VAC, 50 Hz
- Approx. Dimension (L\*W\*H): 2050\*1050\*1250 mm
- Quantity : One No.
- The Machine to be fit with variable speed drive for varying the speed of the Seasoning Drum (for varying the feed rate).
- The supply to have necessary electrical control panel with necessary electrical safety devices.

### **3. Single Screw Snack Extruder**

- Product Capacity : 75-100 kg/h (Corn Curls)
- Type of product : Puffed product
- Main Geared Motor : 20-30 HP, with AC drive for varying the speed (Approx.)
- Feeder Hopper : Capacity 50 kg, SS-304 grade
- Feeder Motor: 1 HP, 440 VAC, 3-Phase, 50Hz with AC drive for varying the extruder speed
- Cutter Motor: 1 HP, 440 VAC, 3-Phase, 50Hz with AC drive for varying the cutter speed
- Temperature Controller: To indicate the barrel temperature (60-225 °C) of the Extruder / Product
- Die: 3 nos, Corn curls like, Hollow. etc.,
- Die and cutter blade material: SS-304 grade
- Screw material : SS-316 grade
- The machine to have a pneumatic conveying system for transfer of corn curls
- Quantity: One No.
- The supply to have necessary electrical control panel with necessary electrical safety devices.

### **4. Spice Flavoring / Seasoning Drum**

- Capacity : 75-100 kg/h
- Main motor : 1 HP / 3 Ph, 440 VA / 50Hz
- Drum size : 3.2 Meter (10.5Feet)
- Material : SS-304
- Drum with Heating : Hot air blower (50-100 °C)
- Sprayer Gun : Powder and liquid with compressor for air
- Quantity : One No.
- The Machine to be fit with variable speed drive for varying the speed of the Seasoning Drum.
- The supply to have necessary electrical control panel with necessary electrical safety devices.

### **5. FF Seal Machine**

- Range of capacity : 50-200 gm / Pouch
- Bag Size : 150 mm (W), 170 mm (L)
- Production Applications : Granules
- Sealing Type : 3 Sides sealing
- Roll Width : 200 mm
- Feeding System : Volumetric Cup Filler
- Machine Motor : 0.5 ~ 1 HP
- Electrical Supply : 220 VAC, Single Phase, 50 Hz
- Packing Film : Any heat sealable laminated roll

- Machine control Through : PLC (Programmable Logic control)
- Contact Part : SS-304
- Heater Load : 1350 W (Approx.)
- Packing film pulling : Through Servomotor
- Temperature Controller : PID Based
- Machine Speed : 40-60 Pouches per Min.
- Power Consumption : 2 ~ 3 kW
- Machine Motion : Intermittent.
- Compressor : 3HP, 200L
- Quantity : One No.
- The supply to have necessary electrical control panel with necessary electrical safety devices.

## INSTRUCTIONS TO BIDDERS

1. The Instructions, Terms & Conditions, General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Annexures and Formats hosted in our website [www.cftri.res.in](http://www.cftri.res.in) [Path: Home page → Tenders → Standard Tender Document (Scrolling Text)] constitute as an integral part of this tender.
  
2. Bidders should submit their Financial Bid in the format provided (Price Schedule Format/BOQ) and same has to be uploaded in the above [etender.gov.in](http://etender.gov.in). It is mandatory for all the bidders to upload duly filled Price Schedule Format/BOQ towards submission of their Financial Bid. No changes or modification to the given format is acceptable. Bidders are required to go through the instructions carefully before filling the Price Schedule Format/BOQ.
  
3. Please note that CSIR-CFTRI, Mysore is registered with the Department of Scientific and Industrial Research (DSIR) for purpose of availing GST @5% concessional rate as per Central Tax(Rate)/Integrated Tax(Rate) in terms of Notification No. 45/2017-Central Tax (Rate)/No. 47/2017- Integrated (Rate) Dt. 14-11-2017. You are advised to quote accordingly.
  
4. Bid Security (EMD) is **Rs. 200,000.00 (Rupees Two lakhs only)** for this tender either by DD/BG from Scheduled Commercial Banks or **Bid Security Declaration(BSD)** Form (Annexure-4).
  
5. **Pre-Bid Conference (PBC):**  
Pre-Bid Conference is scheduled on **20<sup>th</sup> August, 2020 at 10.30 a.m in the Office of the Stores & Purchase Department, CSIR-CFTRI, Mysore.** In the present prevailing condition of **COVID-19** Pandemic, PBC either will be held in **person or through Video Conference** (Link can be shared with bidders who wish to participate in PBC). Interested bidders must confirm participation in PBC by email in advance) or any other electronic communication mode.  
  
It is preferably advised that all prospective bidders may submit their clarifications/questions/queries if any in writing by email to [sosp@cftri.res.in](mailto:sosp@cftri.res.in) & [cosp@cftri.res.in](mailto:cosp@cftri.res.in) by **19<sup>th</sup> August 2020** so that any issue can be addressed during PBC scheduled on 20<sup>th</sup> August, 2020. The amendments/clarifications if any, to the Bidding Documents pursuant to the Pre-Bid Conference would be uploaded in [etenders.gov.in](http://etenders.gov.in) and same will also be hosted on the Website of CFTRI and all the Prospective Bidders are

expected to take cognizance of the Proceedings of the Pre-Bid Conference before formulating and submitting their Bids.

6. **Performance Security:** The supplier shall furnish Performance Security of **10% of the contract value** valid for warranty period of one year + additional 2 months after the warranty for this tender.
7. **Integrity Pact** is not applicable for this tender.
8. **Warranty:** One year from the date of supply, installation & Commissioning, demonstration and acceptance by the Purchaser.
9. **Delivery Period:** Delivery should be effected within 6-8 weeks from the date of issue of Purchase Order.
10. **Terms of Payment:** The method and conditions of payment to be made to the supplier under this Contract shall be as follows:

**Payment for Goods and Services supplied from India:**

Payment for Goods and Services supplied from within India shall be made in Indian Rupees [INR] only as follows:

**A. On Delivery, Installation & Commissioning, Demonstration and Acceptance:**

- a) 90 % (Ninety Percent) of the Contract Price shall be paid on Delivery of the Goods, Installation & Commissioning, Demonstration and Satisfactory Acceptance of Items & upon submission of the documents specified in GCC/SCC and the acceptance certificate issued by the Purchaser.
- b) Balance 10% payment will be made to the supplier against submission of Performance Security i.e 10% of Contract value valid for warranty period + additional 2 months issued by Scheduled Commercial Bank.

**or**

**B. Inland Letter of Credit:** The inland L/C will be confirmed at the suppliers cost, if requested specifically by the supplier. All bank charges shall be to the account of the beneficiary i.e. Supplier. If L/C is requested to be extended/ reinstated for reasons not attributable to the supplier, charges shall be to the account of the opener i.e. Purchaser. If L/C is requested to be extended/ reinstated for reasons not attributable to the Purchaser, the charges thereof would be to the Suppliers' account. The inland LC for 100% value of the contract shall be established. The payment shall be made in Indian

Rupees, as follows:

(a) 90 % (Ninety Percent) of the Contract Price shall be paid on Delivery of the Goods, Installation & Commissioning, Demonstration and Satisfactory Acceptance of Items & upon submission of the documents specified in GCC/SCC and the acceptance certificate issued by the Purchaser

(b) Balance 10% payment will be made to the supplier against submission of Performance Security i.e 10% of Contract value valid for warranty period + additional 2 months issued by Commercial Scheduled Bank.

#### **COVER DETAILS - DOCUMENTS TO BE UPLOADED:**

##### **Cover - 1: PreQual/Technical Bid (Techno-Commercial Details) for Procurement of Extruder Line - 1No. (Document Type .pdf)**

- 1.(a) Catalogue / Brochure of the Model Quoted along with a detailed description of the essential technical and performance characteristics of the goods being offered, with an item by-item commentary on the indented technical specification and documentary evidence of conformity of the goods and services to the bidding documents demonstrating substantial responsiveness of the goods being offered.
- (b) Two (2) latest Purchase Order Copies with price of reputed Govt. Research Institutes/Organisation or any other institutions for the supply & installation and satisfactory functioning of the similar/equivalent equipment to comply with minimum eligibility criteria.
- (c) User list for the quoted model along with contact Numbers and email ID
- (d) Warranty offered and delivery schedule.
2. Bidder Information Form (Annexure - 1)
3. Manufacturer's Authorization Form (Annexure - 2)
4. Bid Security Form (Annexure-3) / Bid Security Declaration Form (Annexure-4)
5. Performance Statement Form (Annexure - 5)
6. Deviation Statement Form (Annexure - 6)
7. Bidders must furnish a Compliance Statement of each and every required specification of our tender (Annexure-8)
8. Documents establishing goods eligibility and conformity to bidding



- document; indicating the Indian Customs Tariff Number (ICT & HSN No.)
9. Schedule of Requirements - (Refer Chapter 5 for Format)
  10. Declaration abiding by the Code of Integrity and No Conflict of Interest for Public procurement (Annexure - 11)

**Cover - 2: Price Schedule Format/BOQ (Document Type. xl) BOQ uploaded in etenders.gov.in**

**Please refer to our Standard Tender's Terms & Conditions uploaded in [www.cftri.res.in](http://www.cftri.res.in) under tender (Chapter-7) for above Format of Annexures. Any other supporting documents to avail preference/benefits as per Standard Tender Document must be uploaded with the Technical bid for technical qualification.**

## **P.S:**

**As per OM No. 6/18/2019-PPD dt 23/07/2020, under Rule 144(xi) in GFR 2017, Requirement of Registration is mandatory for:**

**Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including turnkey projects) only if the bidder is registered with the Competent Authority.**

### **Special Clauses for Tenders**

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -
  - a) An entity incorporated, established or registered in such a country; or
  - b) A subsidiary of an entity incorporated, established or registered in such a country; or
  - c) An entity substantially controlled through entities incorporated, established or registered in such a country; or

- d) An entity whose beneficial owner is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or
- f) A natural person who is a citizen of such a country; or
- g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The beneficial owner for the purpose of (iii) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation-

- a) "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
  - b) 'Control" shall include the right to appoint majority of the directors or to control the management or policy decisions Including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
2. In Case of A partnership firm the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more Juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
  3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more Juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
  4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the: relevant natural person who holds the position of senior managing official,
  5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person

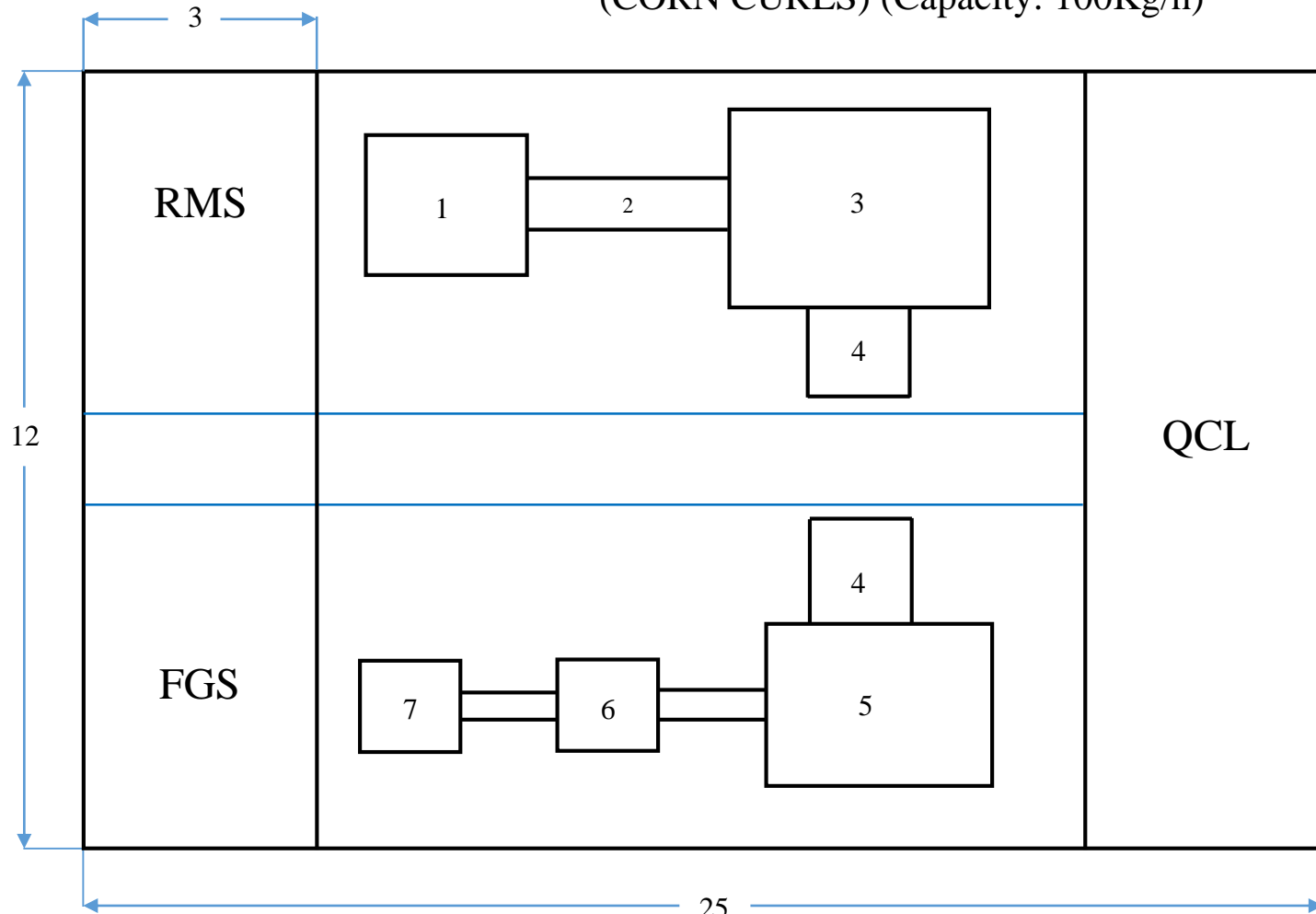
**Certificate for Tenders must be submitted with bid**

**"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a, country or, if (from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in the regards and is eligible to be considered (Where applicable, evidence of valid registration by the Competent Authority shall be attached)**

**(Seal & Signature)  
(with name & designation)**

# PLANT-LAYOUT FOR EXTRUSION LINE FOR SNACK FOOD

(CORN CURLS) (Capacity: 100Kg/h)



List of Machinery	
1.	Grinder
2.	Screw Elevator
3.	Single Screw Extruder
4.	Pneumatic Conveyor
5.	Coating Equipment
6.	Cooling Unit
7.	Form Fill Seal machine

Abbreviations:  
 RMS – Raw Material Storage  
 FGS – Food Goods Storage  
 QCS – Quality Control Laboratory

Name	Extrusion Line for Snack Food (Corn Curls)
Layout Dimension	Length*Width = 25*12

All Dimensions are in METERS.