



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

**cftri**

सं. /No. CFTRI /74176/2019

दिनांक / Date: 16<sup>th</sup> December 2019

निविदा आमंत्रण सूचना

**NOTICE INVITING TENDER**

क्रम सं. Sl. No.	निविदा संदर्भ Tender Reference	विवरण / Description
1	A3/74176/2019	Millet Processing Line – 1No.

1. Director, CSIR-CFTRI, Mysuru invites tenders for supply, installation & commissioning and satisfactory demonstration of Millet Processing Line – 1No.
2. Pre Bid conference is scheduled on 23.12.2019 at 10.33a.m at CSIR-CFTRI, Mysore
3. Last date for submission of Tender is 2.00 P.M. (IST) on 07 /January/ 2020 on line in [etender.gov.in](http://etender.gov.in).
4. Bid Security(EMD) Rs.135,000.00
5. Technical Bid Opening on line in etender portal at 2.30P.M(IST) on 08/January/2020

हस्ता./Sd/-

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**CRITICAL DATE SHEET:**

Tender Ref/No.A3/74176/2019

Sl.No.	Stage	Date & Time
1	Publish Date & Time	16/12/2019 @ 3.30p.m.
2	Document Download Start Date & Time	16/12/2019 @ 3.30p.m.
3	<b>Pre-Bid Conference</b>	<b>23/12/2019@ 10.30a.m</b>
4	Bid submission Start Date & Time	31/12/2019 @ 10.00a.m.
5	Bid submission End Date & Time	07/01/2020 @ 2.00p.m.
6	Bid Opening Date & Time	08/01/2020 @ 2.30p.m.

**TENTATIVE TIME SCHEDULE OF PROCUREMENT PLANNING:**

Sl.No.	Stage Tentative Frame Time	Date & Time
1	Date of Bid opening	08/01/2020
2	Date of Completion of Techno-Commercial Bid evaluation	08/01/2020 + 15Days
3	Date of Communication of Rejection of Bids	08/01/2020 + 25 Days
4	Date of Receipt of Contest, if any, from Bidders	08/01/2020 + 35 Days
5	Notification of Award	08/01/2020 + 50 Days

## Specification and Allied Technical details

A3/74176/2019-20

### EQUIPMENT LIST WITH SPECIFICATIONS

#### TECHNICAL SPECIFICATION IN DETAIL

##### A. Millet Processing plant

S. No.	Item	Quantity
1	<p><b>Cleaner</b></p> <p>All steel construction high-speed multi-deck vibrating screen type cleaner cum grader is required for high-quality size separation and aspiration of dry material such as millets like <b>(Fox tail millet, proso millet, little millet, barn yard millet etc.</b></p> <p>The unit should have aspiration system at inlet and outlet points, with adjustable feed hopper for even distribution of material on screen surface, dust control; provision to vary the deck vibration and speed; provision to vary machine conditions while the machine is in operation.</p> <p>The unit should be fitted with appropriate capacity continuous rated TEFC squirrel cage induction motor and starter of reputed make to run on 415V, 50Hz, 3 phase AC supply.</p> <p>Capacity 1ton/h</p>	1
2	<p><b>Destoner</b></p> <p>Vibratory destoner vacuum type for continuous destoning of millet grains <b>(Fox tail millet, proso millet, little millet etc.</b> The unit should be of all steel construction with vibratory deck and well balanced built-in fan. The unit should have facilities for independent alteration of inclination of deck and volume of air. Necessary fitting with feed hopper, regulators for uniform flow of grains across the entire width of deck with all essential accessories should be provided.</p>	1

	<p>The unit should be fitted with suitable continuous rated TEFC squirrel cage induction electric motor and starter of reputed make to run on 415volts, 50Hz, 3 phase AC supply.</p> <p>Capacity 1ton/h</p>	
2a*	<p><b>Dust control system*</b></p> <p>Dust control system includes dust blower, collecting system, CG motor and other discharge unit to collect the lighter impurities and dust from machinery</p> <p><b>‘*’ Combine system for both cleaner and destoner</b></p>	1unit
2b	<p><b>Magnetic Separator System</b></p> <p>The magnetic separators are employed for the removal of metal particles, e.g. nails, wire and screws. They are applied in the cleaning house or prior to milling unit.</p> <p>Capacity 1ton/h</p>	1unit
3	<p><b>Pneumatic Rubber Roll Sheller</b></p> <p>Pneumatic Sheller is intended to facilitate the easy removal of husks from millet grains(<b>Fox tail millet, proso millet, little millet etc.</b> Input grain is passed between two counter-revolving rollers, which results in the removal of the husk from the grain.</p> <p>The machine should equipped with Vibro aspirator, compressor and automatic systems that control the pressure exerted by the rollers, as well as the correct feed rate for the input grains with the help of Vibrator system which allows uniform distribution of grain.</p> <ul style="list-style-type: none"> <li>• Capable of removing husks with a 95% level of accuracy.</li> <li>• Hardness of Rubber roller should be in the range of 85 to 90 shore.</li> <li>• Infinite adjustment of the degree of shelling by adjusting compressed air pressure</li> <li>• Sensor-enabled panel disengages the rubber rollers automatically when input product flow stops</li> <li>• Feed rate can be controlled electronically</li> </ul>	1unit

	<ul style="list-style-type: none"> <li>• An inbuilt cooling system to dissipate heat generated on rubber rollers</li> <li>• Auto/manual mode of working</li> <li>• Capacity 1ton/h</li> </ul> <p>The unit should be fitted with suitable continuous rated TEFC squirrel cage induction electric motor and starter of reputed make to run on 415volts, 50Hz, 3 phase AC supply.</p>	
4	<b>Centrifugal Fan</b>	1
5	<b>Cyclone Separator</b>	2
6	<p><b>Compartment Separator</b></p> <p>Separator separates two products of same size but different specific gravity.</p> <ul style="list-style-type: none"> <li>• Capacity 1ton/h</li> </ul> <p>The unit should be fitted with suitable continuous rated TEFC squirrel cage induction electric motor and starter of reputed make to run on 415volts, 50Hz, 3 phase AC supply.</p>	1
7	<p><b>Cone polisher/whitener/vertical polisher</b></p> <p>Semi-automatic cone polisher <b>whitener/vertical polisher</b> for polishing of hulled grain</p> <p>The machine should equipped with bran collection system.</p> <ul style="list-style-type: none"> <li>• Capacity 1ton/h</li> </ul> <p>The unit should be fitted with suitable continuous rated TEFC squirrel cage induction electric motor and starter of reputed make to run on 415volts, 50Hz, 3 phase AC supply.</p>	2
8	<b>Cyclone Separator</b>	1
9	<b>feeder</b>	8
10	<b>Blower</b>	1
11	<p><b>Bucket elevator</b></p> <p>In M.S. construction with PVC Buckets, Pulley &amp; Light Weight Polymer Belting, and Counter Shaft Driving mechanism / TT geared box with CG motor.</p>	5

	<p>The unit should be fitted with appropriate capacity continuous rated TEFC squirrel cage induction motor and starter of reputed make to run on 415V, 50Hz, 3 phase AC supply.</p> <p>Capacity 1/h(each)</p> <p>This Elevator will feed Raw Millet to Millet Bin. <b>Delivery pipe in S.S.</b> [Elevator height – 23 ft(2nos.), 32 ft(2nos.) and 36feet (1No.)]</p>	
12	<p><b>Storing tanks with MS structure</b></p> <p>Polished grain storage tanks 3 to 4 mm body thickness in S.S.304 Construction without cover fitted with suitable Discharge Valve with holding capacity 1ton/h</p> <p><b>M.S. STRUCTURE:</b> 1 lot</p> <p>Supporting structure in M.S. construction including Stair Case, ladder, Walkways, Railings and Grating Platform.</p>	2
13	<p><b>Storing tanks with MS structure</b></p> <p>Storing tanks 3 to 4 mm body thickness in MS Construction without cover fitted with suitable Discharge Valve with holding capacity 1ton/h</p> <p><b>M.S. STRUCTURE:</b> 1 lot</p> <p>Supporting structure in M.S. construction including Stair Case, ladder, Walkways, Railings and Grating Platform.</p>	6
14	<p><b>Bag filling machine with SS304 hopper/contact parts,</b></p> <p>Semi-Automatic high speed processor based electronic weighing system with standard load cells, double speed vibratory feeder and Pneumatically operated functions.</p> <p><b>Range: 5 to 50Kgs with accuracy +30 to 60gms</b></p>	1

In addition to the above detailed specification of the machinery the bidders are also requested to note the following points and submit technical (confirming supply as per tender

**specification and inclusive of the following requirements along with supporting technical literature/brochure) and commercial offer for the specific lines:**

1. Each individual machinery should be supplied with anti-vibration mounting.
2. Spares of machinery for 1 year of operation should be supplied.
3. Tools required for maintenance of machinery should be supplied.
4. Appropriate guard for all open drives should be provided for safety.
5. The individual machinery should be supplied with electrical motor and matching starter.
6. Each machine of the line should be provided with a remote push button unit near the machine itself for starting/stopping the individual machine.
7. The electrical motor supplied should be from reputed manufactures (BIS) having efficiency of 80% and above.
8. Control panel for the entire plant should be provided along with indicator lamps and Voltage, Current meters ELCB and VDR units.
9. The charges for wiring the individual machinery with necessary and regulatory safety features should be included in the scope of supply.
10. The AMC for the entire plant (after warranty period) should also be indicated.
11. The colour scheme of painting of all machines shall be Indigo blue and Off white.

## 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 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. 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. Bid Security (EMD) **is Rs.135,000.00** for this tender.
4. **Pre-Bid Conference:**  
Pre-Bid Conference on December 23<sup>rd</sup> 2019 at 10.30Hrs (IST) in the Office of the Stores & Purchase Department, CSIR-CFTRI, Mysore.  
Prospective bidders are requested to submit their clarifications, questions, queries if any, in writing, so as to reach the office of the Stores & Purchase Officer latest by 19<sup>th</sup> December 2019 for deliberations.  
The amendments/clarifications if any, to the Bidding Documents pursuant to the Pre-Bid Conference would be uploaded in etender.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.
5. **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.



6. Integrity Pact is not applicable for this tender.
7. **Warranty:** One year from the date of supply, installation & Commissioning, demonstration and acceptance by the Purchaser.
8. **Delivery Period:** Delivery should be effected within 4 weeks from the date of issue of Purchase Order.
9. **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] as follows:

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

**10. COVER DETAILS - DOCUMENTS TO BE UPLOADED:**

**Cover – 1: PreQual/Technical (Techno-Commercial Details) for Procurement of Millet Processing Line (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 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 [etender.gov.in](http://etender.gov.in)**

**Please refer to our Standard 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.**