



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

Tender Ref: CFTRI/74175/19 Date: 16-12- 2019

Tender ID: 2019_CSIR_28212_1

The revised final specification based on the discussion in Pre Bid Conference enabling equal opportunity to all OEMs has been incorporated below as revision to the original tender specification. All bidders are requested to peruse the same and submit their bids accordingly on or before 02.00 p.m. on 23/Jan/2020.

All other tender terms and conditions remain unaltered.

Revised Technical Specifications for Flaking line

Sl. No.	Item	Quantity
1	<p>Roller flaker Roller Flaker Machine– Heavy duty roller flaker machine with centrifugally cast chilled CI rollers of hardness 550-560BHN: chilled depth approximately 15mm.</p> <p><u>Roller dia:</u> 500mm</p> <p><u>Length:</u> not less than 600mm.</p> <p>The unit should be complete with sturdy body frame, suitable roller gap adjustment mechanism for precision adjustment and maintainance of parallelity between rolls. The unit should be complete with freedom (adjustable) for uniform feeding of stock all along the roller length; drive system for roller speed ratio of 1:1, 1:1.06 and 1:1.12.</p>	1

	The unit should be fitted with suitable continuous rated TEFC induction electric motor and starter of reputed make to run on 415volts, 50Hz, 3 phase AC supply.	
2.	<p>Bucket elevator In M.S. construction with food grade Buckets, Pulley & Light Weight Polymer Belting, and Counter Shaft Driving mechanism / geared box with motor. The unit should be fitted with appropriate capacity continuous rated TEFC induction motor and starter of reputed make to run on 415V, 50Hz, 3 phase AC supply. Capacity 1ton/h(each) Delivery pipe in S.S.</p>	As per layout requirement for smooth and continuous running of plant
3.	<p>Slat conveyors Food Grade Belt Conveyor Inclined Food grade slat conveyor with SS304 input hopper and belt conveyor of food grade surface with multiple cleated & side walled and properly controlled system for speed of conveyor. The unit should be fitted with appropriate capacity continuous rated TEFC induction motor, geared box and starter of reputed make to run on 415V, 50Hz, 3 phase AC supply. Capacity: 1ton</p>	As per layout requirement for smooth and continuous running of plant
4	<p>Storing tanks with MS structure 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 M.S. STRUCTURE: 1 lot Supporting structure in M.S. construction including Stair Case, ladder, Walkways, Railings and Grating Platform.</p>	2
5	<p>Bag filling machine with SS304 hopper/contact parts, Semi-Automatic high-speed processor-based electronic weighing system with standard load cells, double speed vibratory feeder and pneumatically operated functions. Range: 5 to 20Kgs</p>	1

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In addition to the detailed specifications of the machinery the following points may also be added as a general item in the specification of machinery for the specific lines:

1. Essential spares of machinery like screens and other spares for smooth functioning of the plant for one year of operation should be supplied.
2. Tools required for maintenance of machinery should be supplied
3. Appropriate guard for all open drives should be provided for safety
4. The individual machinery should be supplied with electrical motor and matching starter
5. Provision for starting/ stopping the individual machine of the line should be made available
6. The electrical motor supplied should be from reputed manufacturers having an efficiency of 80% and above
7. Control panel for the entire plant should be provided along with indicator lamps and Voltage,
8. The charges for wiring the individual machinery with necessary and regulatory safety features should be included in the scope of supply
9. The AMC for the entire plant (after warranty period) should also be indicated
10. Please mention the area required for each line and arrange to provide layout drawing accordingly.
11. The colour scheme of painting of all the machines shall be of uniform colour