



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

Corrigendum: Tender for Extruder with Film Blowing Unit

Corrigendum Title: Revised Technical Specification based on PBC

Tender Ref: CFTRI/74239/2022 Date: 28-11- 2022

Tender ID: 2022_CSIR_136737_1

The revised final specification based on the discussion in Pre Bid Conference held on 05-12-2022 @ 11.30A.M is uploaded herewith and delivery schedule period is 12 weeks instead of 4-6 weeks as specified in our tender terms & conditions

All the prospective bidders are requested to take cognizance of the revised specification & delivery schedule and submit their bids accordingly on or before 02.00 p.m. on 20/December/2022.

All other tender terms and conditions of tender remain unaltered.

-Sd-

**Controller of Stores &Purchase
CSIR-CFTRI, Mysore
Dt. 06-12-2022**

Revised Technical Specification based on PBC

Extruder with Film Blowing Unit

Item		Description
1	Co rotating twin screw extruder	
	Extruder output	5kg/hour or better
	Application	Universal applications/ Biopolymers/HDPE/LDPE
	No of zones	above 08 zones including cooling and heating
	Barrel diameter	20mm-22mm
	Screw diameter	18 to 24mm
	Minor diameter	10 to 12 mm
	Do/Di	1.7 or higher
	L/D ratio	40-50
	Screw speed (Max)	1200 RPM
	barrel Liner – MOC	AISI A11 or better
	Screw element MOC	AISI A11 or better
	Solenoid valves	Danfoss /ASCO make/ reputed make
	AC motor	Suitable motor
	Motor drive Controller	AC variable speed drive
	Gear box	Ultra-high-torque gearbox
	Nominal operating torque	30 Nm/shaft or better
	Specific torque	7.3 Nm/cm ³ or better
	Coupling	Flexible
	Screw shaft	ultra-high-torque splined shaft
	Centre height	1100 mm minimum or above specified
	Barrel Heaters	Cartridge Type
	Width of the film	300mm
	Thickness of the film	50 – 200 μm
2	Volumetric feeder	
	Maximum screw speed	140 rpm minimum or above specified
3	Air cooled conveyor belt	
	Type of conveyor belt	Mesh type
	Dimension	Length 6000 mm * width 300 mm * height 1000 mm (Adjustable 50 mm) required minimum or above specified in dimension
	Conveyor Structure	M S powder coated
	Belt Material	SS-304

	No of cooling system	no 6 & fan with adjustable mounting facility with adjustable distance
	working conveyor width	300mm
	Electrical AC motor	Motor gear box with VFD controller-
4	Side feeder	
	AC Motor	
	Motor Type	Geared motor
	Screw speed	600-800 rpm
5	Strand pelletizer	
	Feed width	30-35 mm
	pellet length	3-5 mm
	Strand speed	15-90 m/min (min/max)
	Max. No of strands	adjustable min 2 mm to 6mm or above
6	Film blowing unit	
	control panel & Gear box	Motor with VFD control
	Surface winder	Suitable surface winder
	Air Ring	Suitable air ring
	Screw Barrel	30mm (EN41B + nitrate plating)
7	PLC control system	Standard Control system
8	Devolatilizing system	
	Must have vacuum degassing system	Suitable AC Motor with Pre-separator.
9	Blender	5-10 L SS planetary Mixer blender
10	Compressor for Blowing	Suitable and branded compressor
11	Dies- 3 types	
	flat film, Strand die, chunks die	2 Bolt type die assembly consists of Die adaptor, swing out type Die head & a detachable die plate.
12	Essential Accessories	1. Anti-Vibration & Levelling Pads 2. Melt pressure indicator with retransmission facility for control interlock
13	Warranty	All machine and items must be covered with warranty period for one year minimum
14	Demo /Training	1 week