

TENDER NOTICE

Sealed Tender offers are invited from equipment manufacturer or their authorized dealer for supply, installation & commissioning of Single head 5 ltr pouch packing machine. at our 40/4,40/5, sector 18 Mafco yard, Turbhe, Vashi Navi Mumbai. Machine details, term-conditions of the Tender are available at our Gokul Shirgaon, Kolhapur office and also on our web site www.gokulmilk.coop Sealed Tender offers should be submitted at our Gokul Shirgaon, Kolhapur office on or before **18.03.2025** . Right to accept or reject any offer without assigning any reason is reserved.

Managing Director**Chairman**
Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd., Kolhapur
B-1, M.I.D.C., Gokul Shirgaon, Tal Karveer, Dist. Kolhapur 416 234

KOLHAPUR ZILLA SAHAKARI DUDH UTPADAK SANGH LTD., KOLHAPUR

General Terms & Conditions of Tender

1. Technical details of required 5 kg Pouch packing machine is given in the attached annexure.
2. Tender offers is to be given on the Letter heads of the Tenderers in the format given by us.
3. Earnest Money Deposit of Rs. 20,000/- (Rs. Twenty thousand only) by D/D issued in favour of Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd., Kolhapur must be given alongwith the Tender. Tender without EMD will not be considered.
4. No escalationss in the price will be given once the offer is finalized.
5. Sealed Tender offer duly marked **TENDER FOR SINGLE HEAD POUCH PACKING MACHINE** alongwith requisite EMD should reach our Gokul Shirgaon, Kolhapur office on or before **18.03.2025**.
6. **Payment Terms**
 - a) 30% advance of total contract value alongwith the purchase order after getting order acceptance and on submission of Bank Guarantee of equivalent amount.
 - b) 40 % payment of supply items alongwith GST will be released after safe receipt of equipment/material at submission of progressive invoices.
 - c) 20 % payment of supply items will be released after satisfactory installation & commissioning of pouch packing machine.
 - d) Final 10% of total contract value will be released after one month satisfactory working of installed machine & Submission of Performance Bank Guarantee of Nationlized bank for same amount valid for one year from date of completion of work
7. Right to accept or reject any or all Tender offers without assigning any reason is reserved.
8. Subject to Kolhapur Jurisdiction.

Managing Director

KOLHAPUR ZILLA SAHAKARI DUDH UTPADAK SANGH LTD., KOLHAPUR

TECHNICAL SPECIFICATIONS FOR SINGLE HEAD 5 LTR POUCH PACKING MACHINE

PRODUCT	Milk or any other free flowing liquid.
FEEDING SYSTEM	Gravity Filler
DOSAGE	5000 ml / 6000ml
SPEED	12-16 pouches / min. (700/900 pouches per hour) , Accuracy: +/- 15 ml
PACKAGING MATERIAL	Polythene film LDPE Film Width: 590 ± 2mm. Thickness: 100-120 micron Max weight of the film roll: 25 kgs+/- 2 kg Roll core size: 76mm +/- 1 mm
TYPE OF SEAL	Vertical- Overlap & Horizontal – Band sealing Impulse Type.

1 SUPPLIES TO THE MACHINE

- (a) Electrical
- (b) 3 phase with regulated voltage and neutral , earthing
- (c) Compressed Air – Not required for the m/c.
- (d) Cooling Water –
- (e) Pressure – Min 2 kg/cm²
- (f) Flow Rate: As per requirement
- (g) Temperature: Normal

DESCRIPTION OF THE MACHINE BODY	12. Machine body of SS 304 .The components which form fill seal the pouches/sachets are enclosed in a stainless steel cabinet. All major items are of stainless steel. All parts in contact with the product are of AISI-304 stainless steel with smooth finish.
SPOOL BEARER ASSEMBLY	13. Roll of heat sealable films are mounted in a compartment at the rear bottom of the machine. They are supported on the idler rollers in sliding drivers, which enables to change the rolls quickly. The Film layers pass different idler rollers and film loosening rubber rollers and in front of the ultra violet sterilization tube before it are engaged in the forming device. The specially designed former converts this layer into a tube.
2 VERTICAL SEAL	(B) The film is overlapped and sealed into a tube head by impulse heated elements known as vertical electrodes. The sealing jaws are water-cooled and are mechanically operated by

	<p>a cam on the drive shaft. The formed film tube surrounds the injection or filling tube through which the products to be filled flows in the film tube.</p>
FILM FEED	<p>(C) Downward movement of the film tube is controlled by rubber nip rollers below vertical sealer. Vertical overlapped sealed film tube is pulled down by nip rollers driven via unrolling cam on drive shaft, bevel gears set, clutch and brake unit and chain sprocket assembly. The eccentricity of this unrolling cam has an adjustable system for changing the length of the film tube pulled down.</p>
INJECTION SYSTEM	<p>(D) The filling system is basically as follows</p> <ol style="list-style-type: none"> 1. A constant insulated level tank of SS with sensors mounted on top of the machine 2. A filling tube of SS leading down from the tank and inside tube film is provided 3. A Electromagnetic Coil is mounted on top of the injection Tube <p>(E) A gate at the lower end of the injection tube opens when injection switch is turned ON. This allows the liquid to be packed in the surrounding formed film tube. The gate opens through the electromagnetic clutch Unit. Proper pouch weight control / milk flow should be done automatically</p>
HORIZONTAL SEALING AND CUTTING	<p>(F) Require Band Sealing</p> <p>(G) The sealed tube arrives at the bag making point. Here when the horizontal presses close on the film tube, the horizontal assembly mounted on one of the presses seals and cuts the horizontal portion of the film tube. The flow of the liquid in the film tube is continuous and adjustable automatically. The horizontal sealer seals simultaneously the upper horizontal sealed band of the lower filled pouch and the lower horizontal sealed band of the upper film tube. (i.e tube above the horizontal jaw in which the liquid is being filled). The other horizontal press having only silicon back up rubber & a teflon magazine is called a counter electrode. Cooling water flows through the holes in the horizontal jaw/press, which holds the electrodes.</p>
COOLING	<p>(H) Horizontal and vertical electrode holders are water cooled.</p>
DRIVE	<p>(I) The drive is through a single motor and reduction</p>

	gearbox, chain sprocket which drives the main cam shaft. The mechanical cams fitted on the shaft control the jaws movement and film feed.
ELECTRICAL CONTROL PANEL	Panel at in side of the machine. The electrical switches, control relays, solid state variac, pouch counters are mounted in this panel and of standard make , VFD- Delta , CE mark PLC with Compatible HMI ,electrical – Schneider , photo sensor- pepper and Fuchs, proximity – baumer / IFM, coding machine – Codex with assembly to mount. Rotary Switches – Schneider, PLC – Delta.
Requirement / FEATURES	<ol style="list-style-type: none"> 1. Compressed Air is not required for it's operational. 2. Speed – The machine runs at a speed of 12-16 pouches per minute 3. End of film Indication : Audiovisual alarm gets operated when the film roll gets exhausted 4. Less noise and vibration compared to pneumatic machine. 5. Insulated Balance tank capacity : 80 ltr 6. Encoder based product filling system , User friendly quantity change over 7. Mechanical continuous filler suitable for milk 8. Film Roller – SS 304. 9. On line UV film sterilization of packing material 10. Motorized film reel 11. Machine should be with proper SS 304 foundation
OTHER TERMS AND CONDITIONS	<ol style="list-style-type: none"> 1. Packing and Forwarding, Freight, Insurance, Lifting and shifting, unloading at site on location, installation and commissioning in bidders scope. 2. M/s Kolhapur Zilla Sahakari Dudh Utpadak Sangh will provide one point power supply 3. Site visit of bidders before submitting tender is must 4. Make – Balaji / Samarpan / Nichrome 5. Product line of SS 304 with SS 304 cladding and cooling water line of SS 304 with PUF insulation and SS 304 cladding and proper supports of SS 304 is in bidders scope 6. Ss 304 Collection tray for pouches, SS 304 table for keeping role is in bidder's scope. 7. SS 304 table for seating of worker 8. CIP supply and return line of SS 304 with SS 304 supports for line in bidder scope 9. CIP adaptor

FORMAT

(To be given on Letter head of Tenderer)

To,
The Managing Director
Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd.,
B-1, M.I.D.C., Gokul Shirgaon,
Kolhapur - 416 234

Sub - Tender for Single Head Pouch Packing Machine

Dear Sir,

With reference to the Tender Notice published in _____ I/we submit our
Tender offer for supply of Single Head Pouch Packing Machine at your Vashi, Navi Mumbai branch.
We have thoroughly studied specifications of required chiller & also Terms & Conditions of this
Tender.

Price of Machine Rs. _____ + GST = Total price Rs. _____

(In words Rs. _____)

(Price details are given in the price schedule attached herewith)

Required Delivery Period --

Other information if any --

Place --

Date --

Seal & Signature of Tenderer