



COMPLETE QUOTATION PACKAGE

Hard Gelatin Capsule Production Lines

Model: BHEEM

Prepared For:	The Arab Company For Gelatin and Pharmaceutical Products (Arab-Caps)
Attention:	Mr. Yasser Madkour (Foreign Purchase Manager)
	Mr. Reda Elshamy (Purchase Manager)
Reference:	RFQ dated August 31, 2025
Date:	January 09, 2026
Validity:	April 09, 2026 (3 months)

Anant Pharmacs Private Limited

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INTRODUCTION

Dear Mr. Yasser Madkour and Mr. Reda Elshamy,

We hope this letter finds you well. We would like to express our sincere gratitude for considering our company for your upcoming expansion project. We are honored by the opportunity to submit our quotation for two (2) complete production lines for hard gelatin capsule manufacturing.

Having carefully reviewed your requirements dated August 31, 2025, we are pleased to present our comprehensive technical and commercial proposal for the supply of two complete production lines with full Bin Bar systems, designed to meet your production targets and quality standards.

PRODUCTION CAPACITY PER LINE

133,200 Capsules per Hour

Under Regular Working Conditions

Key Features & Specifications

- Two (2) sets of automatic machines with fully electrical servo motors
- Complete integration with pre-sorter, dryer, and cyclone systems
- Comprehensive marking capabilities for product identification
- Optimized for capsule sizes #0 and #1 with dedicated pin bars
- Oil lubrication system as specified
- Designed to fit within available space: L 17.1m x W 2.0m x H 1.85m
- Price quoted CIF Alexandria Seaport, Egypt



Important Note: Regarding the Kathabar dehumidification system mentioned in your specifications, we regret to inform you that we are unable to supply this particular system as part of our proposal.

TECHNICAL OVERVIEW

Model: BHEEM - Hard Gelatin Capsule Production Line

1. GENERAL SPECIFICATIONS

Parameter	Specification
Model Name	BHEEM
Machine Type	Hard Gelatin Capsule Making Machine
Production Capacity	133,200 capsules per hour (1.332 lakh/hr)
Daily Production	1.5+ million capsules per line
Capsule Sizes	#0 and #1 (with dedicated pin bars)
Operation Mode	Fully Automatic with Servo Motors
Space Requirements	L 17.1m x W 2.0m x H 1.85m (per line)

2. DETAILED MACHINE DIMENSIONS & SPECIFICATIONS

Parameter	Specification
Machine Length	17.1 metres (17,100 mm)
Machine Width	2.0 metres (2,000 mm)
Machine Height	1.85 metres (1,850 mm)
Nominal Operating Speed	37 pin bars per minute
Nominal Production Output	1.332 lakh capsules/hour
Total Pin Bars in Brass Elevator	6 pin bars
Total Pin Bars in Each Block	30 pin bars
Total Number of Pin Bars on Machine	1,410 pin bars

Total Pin Bars Supplied	1,450 pin bars
Pin Bar Length	547.7 mm
Pin Bar Width	22.22 mm
Number of Pins per Bar	60 pins
Total Drying Zones (Upper Deck)	5 zones
Total Drying Zones (Lower Deck)	4 zones
Drying Zones Configuration	4 blocks (4×30=120 pin bars each)

3. MAIN MACHINE COMPONENTS

- Machine Pin bars: 1,410 on machine + 40 spare = 1,450 total supplied
- Pin bar specifications: 547.7mm length × 22.22mm width with 60 pins each
- Brass Elevator: Accommodates 6 pin bars
- Drying system: 5 zones (upper deck) + 4 zones (lower deck) = 9 total zones
- Drying configuration: 4 blocks with 30 pin bars each (120 total per block)
- Cyclone system for dust collection and capsule recovery
- On-line sorter for automatic quality inspection
- On-line viscometer for real-time gelatin monitoring
- Auto aeration unit for precise moisture control
- Gel level controller for consistent dipbath level
- Dipping pans with precision temperature control

- Temperature controller panel with SSR, Heaters and Sensors
- Main electrical panel with circuit breakers and protection
- Automation panel with PLC, Servo Amplifiers and HMI

4. ELECTRICAL & UTILITIES SPECIFICATIONS

Parameter	Specification
Power Supply	3 Phase, 415V, 50Hz
Compressed Air Consumption	30 CFM at 6-8 bar
Lubrication System	Oil lubrication with centralized system
Motor Type	Fully electrical servo motors
Control System	PLC-based automation with HMI touchscreen
Operating Speed	37 pin bars per minute
Control Voltage	24V DC for safety circuits

TECHNICAL OVERVIEW (Continued)

5. DRYING SYSTEM SPECIFICATIONS

Parameter	Specification
Total Drying Zones	9 zones (5 upper deck + 4 lower deck)
Configuration	4 blocks × 30 pin bars = 120 pin bars per block
Temperature Range	Ambient to 60°C (adjustable per zone)
Temperature Control	PID controller with SSR for each zone
Air Circulation	Forced air with variable speed fans
Humidity Control	Integrated moisture monitoring
Drying Time	Optimized for gelatin capsule curing

6. AUTOMATION & CONTROL SYSTEM

- PLC System: Industrial grade PLC for all machine functions
- HMI Interface: Color touchscreen for operation and monitoring
- Servo Control: Individual servo motors for precise pin bar movement
- Speed Control: Variable speed control (37 pin bars/minute nominal)
- Monitoring: Real-time production data and machine status display
- Alarms: Comprehensive alarm system for fault detection
- Data Logging: Production data recording and reporting
- Remote Access: Optional remote monitoring capability

7. QUALITY CONTROL FEATURES

- Sorting System: Automatic rejection of defective capsules

- Viscosity Monitoring: Real-time gelatin viscosity measurement
- Dimension Check: Automatic dimensional verification
- Surface Inspection: Detection of surface defects

8. MATERIAL HANDLING SYSTEM

- Gelatin Preparation: Heated tank with stirrer and temperature control
- Pin Bar Transport: Automatic circulation system (1,410 pin bars)
- Brass Elevator: Accommodates 6 pin bars for smooth transfer
- Capsule Collection: Pneumatic conveying system
- Waste Management: Automatic rejection with separate collection

9. SAFETY FEATURES

- Emergency Stop: Emergency stop buttons at strategic locations
- Safety Guards: Complete safety guarding for all moving parts
- Electrical Safety: Complete electrical isolation and protection
- Interlock System: Safety interlocks on all access doors
- Warning Indicators: Visual and audio warning systems

COMMERCIAL QUOTATION

Equipment Quotation

S.No.	Description	Qty	Amount (USD)
1	Hard Capsule Machine Model BHEEM Complete automatic machine	2	\$702,000.00
2	Packaging - Export crating (\$8,800 per machine)	2	\$17,600.00
3	Freight to Alexandria, Egypt (\$14,840 per machine)	2	\$29,680.00
4	Marine Insurance (\$3,080 per machine)	2	\$6,160.00
	Subtotal (Equipment & Delivery):		\$755,440.00
5	Installation & Commissioning	1	\$21,400.00
	TOTAL PROJECT VALUE:		\$776,840.00

Machine Includes:

- Machine Pin bars for capsule sizes #0 / #1 as ordered
- Cyclone system for dust collection and capsule recovery
- On-line sorter for automatic quality inspection
- On-line viscometer for real-time gelatin monitoring
- Auto aeration unit for precise moisture control of capsule post joining
- Gel level controller for consistent dipbath level
- Dipping pans with precision temperature control
- Drying Kilns for efficient drying of capsule
- Temperature controller panel with SSR, Heaters and Sensors



- Main electrical panel with circuit breakers and protection
- Automation panel with PLC, Servo Amplifiers and HMI

Payment Terms

- Advance Payment: 40% of total value with purchase order
- Before Shipment: 50% of total value before dispatch
- After Installation: 10% after successful commissioning

Delivery Schedule

- Manufacturing: 16-18 weeks from advance payment
- Shipping: 3-4 weeks (sea freight to Alexandria)
- Installation: 2-3 weeks on-site
- Total Timeline: 22-25 weeks from order

Commercial Terms

- Incoterms: CIF Alexandria Seaport, Egypt
- Validity: April 09, 2026
- Currency: US Dollars (USD)

INSTALLATION & COMMISSIONING

- Pre-Installation: Technical drawings and foundation requirements
- Installation: Complete mechanical and electrical installation
- Integration: System integration and testing
- Validation: Performance testing and validation
- Training: Operator and maintenance training
- Documentation: Complete operation manuals

Warranty

- Period: 12 months from commissioning
- Coverage: Manufacturing defects and workmanship
- Support: Remote technical support

We appreciate the opportunity to quote for your project. Our Model BHEEM machines are engineered for exceptional performance and reliability.

Should you require any clarifications or technical discussions, please contact us. We look forward to partnering with The Arab Company For Gelatin and Pharmaceutical Products.

Thank you for your consideration.

Best regards,



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