

A STEP BEYOND QUALITY
CONSISTENCY



ERAWAT

Erawat

Empty Hard Gelatin Capsules





Erawat

Empty Hard Gelatin Capsules

"Erawat Manufactures
Only TSE/ BSE Free
Capsules, Which Are
Also Preservative Free.
ETO Free & SO₂ Free.
We Can Provide
TSE/ BSE Free Certificates
And Halal Certificates
for our Capsules on
The Customers Request"



Erawat Pharma Limited (EPL) is involved exclusively in the manufacturing and exports of Empty Hard Gelatin Capsules since year 1997. Since then, EPL has mastered the capsule manufacturing technology by its own In-House R&D and with the feedback and co-operations of its esteemed clients. Today, EPL is manufacturing World Class capsules which is being used by companies all over the world.

Today EPL is manufacturing capsules which are absolutely Preservative Free, EtO & SO₂ free. Our capsules are manufactured using Halal & EDQM certified Gelatin and we provide the Halal and Kosher certificates to our customers on their request. We manufacture capsules which are necessarily TSE/BSE free and we also comply fully to EU Directives (EMEA 410/01). EPL is also DMF Registered (Type IV 17515) with US FDA, GMP certified ISO certified and works with superior Quality and documentation systems.

We are, at present, offering capsules in Size 00, 0EL, 0, 1, 2, 3, 4 with any possible combination of colors that is required by our customers. Apart from this, we are also offering Premium shades like Iron Oxide, Metallic, Golden & Pearl shades of capsules which provide superior brand security, visual attractiveness and differentiation to the special products of our customers. We can also provide any type of printing on the capsules that is required by our customers.

OUR PHILOSOPHY

At Erawat Pharma Limited we believe and work on the philosophy of serving the requirements of our customers as per their desire. Here it's an **"Ever-Growing Relationship- Building"** exercise with our customer.

OUR COMMITMENT

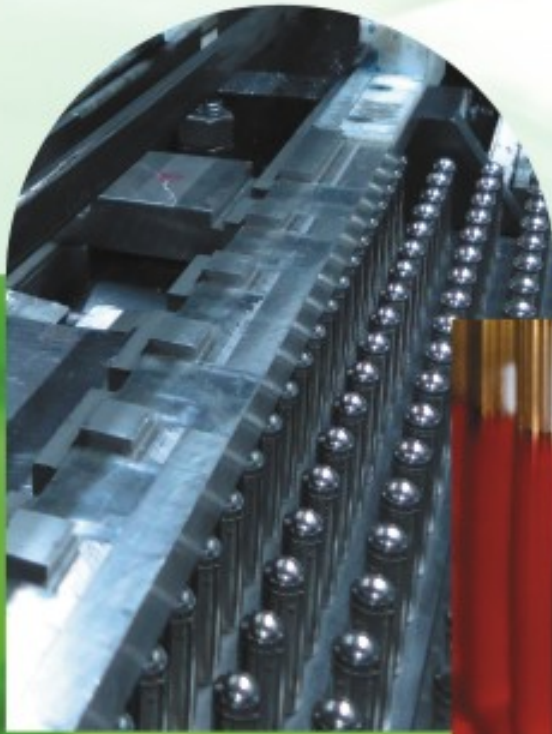
A step beyond quality **"CONSISTENCY"**.

CURRENT CAPACITY

The Current Production Capacity is as follows.

Size	Quantity (Pieces)
00	million per month
0EL	million per month
#0	million per month
#1	million per month
#2	million per month





WHY US

- We are the company with **DMF** certification under **US FDA, ISO, HALAL & GMP** certification.
- Our capsules are strictly "Preservative Free", ETO Free & SO₂ Free.
- Our company confirms fully to all the latest **WHO-GMP, USP, BP & IP** norms.
- We provide customers with all the printing options, like **oriented-circular-multicolor** printing, which helps secure their brand.
- We are also providing **unique Metallic, golden & Pearl shades** of capsules. along with **Metallic Printing**. This not only help a customer to secure its brand but also gives an outstanding visual appearance to the product.
- Shortest lead-time in the industry.
- Our quality is at par with the **best quality available** in the market all over the world.
- The capsules we manufacture are completely suitable for **use on all High Speed Filling Machines**.
- We manufacture "**capsule manufacturing machine**" ourselves in our group unit "**Erawat Engineering Pvt. Ltd.**"
- We have the advantage of "**Real Time**" service & maintenance from the engineering unit, which ensures consistent quality supply.

OUR ESTEEMED CLIENTS

AT ERAWAT PHARMA EVERY CUSTOMER IS VALUED
ONE SOME OF THEM ARE LISTED BELOW

DOMESTIC

MAJOR DOMESTICS CLIENTS

- Advance Remedies, Mumbai
- Ajanta Pharma Ltd., Mumbai
- Alpa Laboratories Lt d. Indore
- Aristo Pharmaceuticals Pvt. Ltd., Mumbai
- Aurobindo Pharma Limited, Hyderabad
- Brooks Laboratories Limited, Solan
- Cadila Pharmaceuticals Ltd., Ahmedabad
- Cipla Limited., Mumbai
- Indoco Remedies Ltd. Mumbai
- Bio Plus Laboratories
- Cadila Healthe care , Ahemdabad
- Inventia Healthcare
- Ipca Laboratories Limited, Mumbai
- Makers Laboratories Ltd. (IPCA)
- Medopharma, Chennai
- Mepro Pharmaceuticals Pvt. Ltd., Mumbai
- Okasa Pvt.Ltd. Goa
- Panacea Biotech Ltd., Delhi
- Plethico Pharmaceuticals Ltd. Indore
- Sidmak Laboratories (India) Pvt. Ltd.,Valsad
- Tuton Pharmaceuticals, Ahmedabad
- Vasu Healthcare Pvt. Ltd., Baroda
- Mayor Organics, Mumbai
- Maxwell Life Sciences

GOVT SUPPLIES

- Goa Antibiotics & Pharmaceuticals Ltd. Goa.
- Hindustan Antibiotics Ltd., Pune, Maharashtra IDPL (TAMIL NADU) LTD., Chennai, Tamilnadu.
- Karnataka Antibiotics & Pharmaceuticals Ltd., Bangalore, Karnataka.
- Kerala State Drugs & Pharmaceuticals Ltd., Alappuzha, Kerla.
- Orissa Drugs & Chemicals Ltd., Bhubanashwar, Orissa.
- Rajasthan Drugs & Pharmaceuticals Ltd., Jaipur, Rajasthan.
- Utter Pradesh Drugs & Pharmaceuticals Co. Ltd., Lucknow, U.P.

EXPORTS

Europe

Georgia
Romania
Netherlands
Turkey
Spain
Kazakistan

Africa

Nigeria
South Africa
Ghana

Middle East & UAE

Syria
Yaman

Asia

Bangladesh
Sri Lanka
Nepal

Cental & Latin America

Honduras
Argentina

East Asia

Philippines
Malaysia
Jakarta





OUR STRENGTHS

CORE COMPETENCY :

SUPERIOR TECHNOLOGY KNOW-HOW

Related to capsule manufacturing process and capability for continuous up-gradation in Product Quality is our biggest strength. With the vast experience of our management and other members in organisation, we boast to have total expertise in process control and manufacturing of Hard Gelatin Capsules. We are consultant to other capsule manufacturers on how to manufacture good capsules.

GROUP COMPANIES

1. **Amit Enterprises** (Manufacturer of Empty Hard Gelatin Capsules)
2. **Erawat Engineering Pvt. Ltd.** (Manufacturer of Precision machines, SPMs, Research machines, Capsule manufacturing machineries)
3. **AAA CNC centre** (Engineering Manufacturing)
4. **Anant machines and equipments Pvt. Ltd.** (Engineering Manufacturing)
5. **HC Management & Technical Consultants** (Capsule manufacturing consultancy services)

(Details on last page)

OUR PEOPLE

Our employees with inherent attitude of working towards customer delight are one of the most important strengths with us. Regular class room training and motivation programs are conducted to keep them updated and agile.

RESEARCH AND DEVELOPMENT

EPL is spending around 10% of its revenue on R&D every year through its group unit to develop the most reliable, consistent and smart technology that enable us to serve the requirement of our customers in the best and fastest possible way by providing quality product.

OUR COMMITMENT TO QUALITY

WE ARE FIRM BELIEVER OF PERVASIVENESS OF QUALITY IN EACH AND EVERY OPERATION PERFORMED IN THE ORGANIZATION.

QUALITY ASSURANCE

Abiding by the principle that "Prevention is better than Cure", our thrust is on Quality Assurance. We have a separate department working for Quality Assurance. Our Q.A. systems and our Q.A. team is always on their toes to make sure that only the right practices and methods are followed and that quality consciousness is inculcated as a habit in every member of the organisation.

Our product passes through a series of Quality Checks on as many as 45 different Parameters to make sure that only the best is supplied to you.

QUALITY CONTROL

The four basic elements of Quality Control, namely, The Personnel, The Materials, The Machinery and The Method Employed are aligned to our core ideology and Quality Policy. Quality control department strictly examines the conformation of product and inputs at all stages. The filling performance of capsules on the filling machine is checked for each and every box.

PRINTING & TESTING

1. Printing :

We are equipped with excellent quality printing machines, which are made in Erawat Engineering Pvt. Ltd. and have the expertise of printing on capsules as per customized requirements.

We provide printing in several varieties as follows :

Linear Printing: (a) Double color oriented (b) Single color oriented (c) Regular Linear printing

Circular Printing: (a) Double color oriented (b) Single color oriented (c) Regular Circular printing

We also provide metallic printing on capsules which give excellent safeguard from counterfeiting possibilities

2. Filling Machine Performance :

We are manufacturing capsules fit to perform excellently on all type of filling machines including Fully Automatic like Zanasi, GKF, PAM, Se jong, MG2 at speeds as high as 150,000 capsules/hr. etc. and all Semi Automatic Machines and Hand Filling Machines and also complies to USP and B.P too.





RAW MATERIAL

In order to ensure of quality goods to the customer, the right kind of materials are procured from the right source. The principal raw materials involved include EDQM certified TSE/BSE free Gelatin and Color Pigments.

COLOR PIGMENTS :

Colorants are used as per specific requirements of customers and food colors are conforming to B.I.S. We are providing our customers exact color shades as per their customized requirement. The color shade is consistent in all the batches of production. The color pigments used are strictly as per I.P. 1996. The color shade once developed for customer is allotted a code and is always reproduced on repeat of orders.

S.NO.	COLOR	COLOR INDEX NO.
1.	Carmosine	14720
2.	Ponceau 4R	16255 (Optional)
3.	Brilliant Blue	42090
4.	Indigo Carmine	73015
5.	Sunset Yellow	15985
6.	Quinoline Yellow	47005
7.	Allura Red	16035
8.	Patent Blue V	42051

OTHER NATURAL COLORS

9.	Black Iron Oxide
10.	Red Iron Oxide
11.	Yellow Iron Oxide
12.	TiO ₂

All the aforesaid colors are permitted under Government of India Drug and Cosmetics Act to be used in manufacturing of drugs. However, any other specified color can also be used as per customer's requirement and approved under the act.

When developing capsules for our export clients, we develop colors using only those colors which are approved and allowed in that country.

GELATIN :

We are using bone gelatin of pharmaceutical grade (as per IP), which is always free from BSE and TSE. Strictly HALAL & EDQM certified

STANDARDS

Our product is complying with specifications as per I.P. & also compiles to USP & BP 1996 in terms of Dimensions, Brittleness, Uniformity of weight, Disintegration Time, Microbiological Limits, Loss on Drying, Storage and Labeling. We maintain quality better than Specified in I.P. as per the Specification Sheet of Erawat Pharma Limited.

PHARMACEUTICAL GRADE GELATIN SPECIFICATION

S.NO.	Test	Specification
1.	Description	As per USP / NF. IP
2.	Storability	As per USP / NF. IP
3.	Identification	Must conform to current USP / NF. & IP
4.	Water absorption & Swelling	Should absorb minimum 5 to 10 times of its own wt.
5.	Odor	a) Must be free of any odors b) No Phenolic Smell
6.	Taste	Should not have salty taste
7.	Mesh size tested on 100g	a) 100% Passing through mesh 4 size 4 mm b) 99% retention on mesh no. 22 c) Fines not more than 1%
8.	Nitrites	Not more than 100 ppm
9.	Phenolic preservative	Absent
10.	Heavy Metals	Not more than 50 ppm
11.	Copper	Not more than 10 ppm
12.	Zinc	Not more than 50 ppm
13.	Arsenic	Not more than 0.8 ppm
14.	Loss on drying	Not more than 12.5%
15.	Loss on ignition	Not more than 1%
16.	Viscosity of 6.66% (W/W) Solution (at 11.5% Moisture content in Gelatin)	44 to 54 mps
17.	Bloom Strength (at 11.5% Moisture content in Gelatin)	245 to 255 g. (not less than 245 g.)
18.	Grease Content	Less than 0.2%
19.	a) PH b) ISO electric point	5.6 to 6.0 4.8 to 5.2
20.	Reducing Substance as SO ₂	Not more than 40 ppm
21.	Oxidizing Substance as H ₂ O ₂	Should be absent
22.	% Viscosity Drop	Not more than 18% as it is
23.	% Transmittance	Not less than 90%
24.	Microbial Analysis :	
	a. Total aerobic microbial count	Not more than 50 cfu/g.
	b. Staphylococcus aureus	Should be absent
	Pseudomonas aeruginosa	
	c. Salmonella Species	Should be absent
	d. E. Coli	Should be absent in 1 g.
	e. Keeping Quality:	
	1. Turbidity	Absent
	2. Foul odor	Absent
	3. Liquefy	Should not liquefy
	f. Gelatin Liquefying Organism	Not more than 50 cfu/g.
	g. Anaerobic Bacteria	Absent
	h. Thermopiles	Absent



SPECIFICATION

The various quality variants are controlled as per specification prescribed in I.P.1996. However, our Quality Control norms are even **Stringent than those specified in I.P.1996**. We operate under narrower limits for various attributes, like Dimension, Weight etc. than those permitted in I.P. 1996.

DIMENSION (in millimeter)

TABLE 1

OUTSIDE DIAMETER

Size	CAP (mm)	BODY (mm)
#00	8.50 - 8.56	8.18 - 8.24
#0el	7.63 - 7.71	7.32 - 7.40
#0	7.57 - 7.69	7.26 - 7.38
#1	6.85 - 6.97	6.56 - 6.68
#2	6.28 - 6.40	6.01 - 6.13
#3	5.75 - 5.87	5.50 - 5.62

TABLE 2

LENGTH

Size	CAP (mm)	BODY (mm)
#00	11.40 - 12.20	19.90 - 20.70
#0el	11.40 - 12.20	19.90 - 20.70
#0	10.68 - 11.68	18.22 - 19.22
#1	9.51 - 10.51	16.22 - 17.22
#2	8.67 - 9.67	14.84 - 15.84
#3	7.73 - 8 - 73	12.98 - 13.98

TABLE 3

PRELOCK JOINED LENGTH OF EMPTY SHELLS

Size	PRELOCK JOINED LENGTH (MM)
#00	25.40-26.20
#0el	24.32 25.12
#0	23.20 24.00
#1	20.80 21.60
#2	19.02 20.02
#3	15.4-16.20

TABLE 4

DOUBLE WALL THICKNESS

Size	CAP (mm)	BODY (mm)
#00	0.196 - 0.224	0.192 - 0.220
#0el	0.186 - 0.226	0.180 - 0.220
#0	0.187 - 0.223	0.177 - 0.213
#1	0.182 - 0.218	0.175 - 0.211
#2	0.180 - 0.216	0.173 - 0.209
#3	0.178 - 0.214	0.170 - 0.206

TABLE 5

WEIGHT OF CAPSULES (in milligram) & VOLUME (in cc)

AVERAGE WEIGHT (Deviation \pm 5%) & VOLUME (in cc)

Size	Average Weight (mg) (AVG of 20 Capsules Taken Together)	Volume(CC)
#00	119	0.95
#0el	104	0.78
#0	96	0.68
#1	76	0.50
#2	63	0.38
#3	50	0.30

TABLE 6

MICROBIOLOGICAL LIMITS

TOTAL COUNTS OF ORGANISM = Less than 1000/ gm

E-COLI = NIL (Absent)

SALMONELLA = NIL (Absent)

Test As Prescribed By I.P. 1996

TABLE 7

MOISTURE CONTENT AND DISINTEGRATION TIME

MOISTURE CONTENT = 13.0 % - 16.0 %

DISINTEGRATION TIME = Less than 15 minutes.

LOSS ON DRYING

Between 12.5 percent and 16 percent, determined on capsule shells weighing 1.0 g by drying in an oven at 105° C for 18 hours.

STORAGE

Capsules should be stored in dry and cool place and boxes should be well closed. The relative humidity is kept between 45 percent and 55 percent. The temperature should be between 22° C to 28° C

FILLING PERFORMANCE

We conduct **Simulation Test** of machine filling for **every box** of capsules. Our capsules run smoothly on all type of filling machines of **any brand or make** including Fully Automatic High Speed Filling Machines.

PACKAGING AND LABELING

PRIMARY PACKAGING

The hard gelatin capsules ready for despatch in all respect are put in LLD Polyethylene bag.

SECONDARY PACKAGING

The Polythene bag containing Empty gelatin Capsule is then packed in strong double corrugated cartons, all the six sides lined with thermoco/styrofoam sheets providing thermal insulation and cushioning.

Export Packing

In order to protect capsules from severe and fluctuating conditions of temperature and humidity, we pack the capsules first in Poly-Bags, then these bag are put in "Aluminum Foil LLDP co-extruded bags". These bags are then put in corrugated box, which is lined with Thermocol (Styrofoam) on all the six inner sides of the box. Further these packed boxes are then laminated with poly film. Thus, we not only take care of the temperature and humidity but also take into consideration the mis-handling that might take place during transportation.

Labeling

Labeling being subset of packaging, the cartons are properly labeled indicating basic information viz., Size, Colour, Quantity, Storage Conditions, Destination etc. Visual test are conducted to ensure that the script is legible and colours are harmonious.

Proper markings, box numbers and sample capsules / capsules color image is paste on each box which helps in easy visual identifiaton of Provide.

STADARD PACKING

Quantity per Box in pcs.

The following table gives our Standard Packing :

Size	QTY. (in pcs.)	BOX SIZES
00	75000	590 mm X 440 mm X 740 mm
0EL	100000	590 mm X 440 mm X 740 mm
#0	100000	590 mm X 440 mm X 740 mm
#1	125000	590 mm X 440 mm X 740 mm
#2	150000	590 mm X 440 mm X 740 mm
#3	175000	590 mm X 440 mm X 740 mm

Quantities & Box Sizes May Change Depending On The Total Order Quantity, Mode Of Shipment & Temp. / Humidity Condition.



THE GROUP

About the "Erawat Group"

Erawat Group started its operations in 1986 through its flagship company "Erawat Engineering Pvt. Ltd. (EEPL)". Today the group consists of following companies:-

- 1. Erawat Pharma Ltd.**
(Manufacturer of Empty Hard Gelatin Capsules)
- 2. Amit Enterprises**
(Manufacturer of Empty Hard Gelatin Capsules)
- 3. Erawat Engineering Pvt. Ltd.**
(Manufacturer of Precision machines, SPMs, Research machines, Capsule manufacturing machineries)
- 4. AAA CNC centre**
(Engineering Manufacturing)
- 5. Anant machines and equipments Pvt. Ltd.**
(Engineering Manufacturing)
- 6. HC Management & Technical Consultants**
(Capsule manufacturing consultancy services)

Erawat Engineering Pvt. Ltd. is involved in the manufacturing of "Special Purpose Machinery", Research machines and equipments for "Centre for Advanced Technology (CAT)", Precision manufacturing, and mainly, Manufacturing of "Fully Automatic Plants for manufacturing of Empty Hard Gelatin Capsules". Today the most important business of this unit is to manufacture all the important "capsule manufacturing" related machineries and spares. Following are the major activities of this unit:-

- a. Manufacturing of "Automatic capsules manufacturing plants" for group units, other domestic manufacturers and for exports.
- b. Domestic and export sales of the "Turnkey Projects to set up capsule manufacturing unit".
- c. Domestic and export sales of the "Consultancy services on capsule manufacturing".
- d. Domestic and export sales of "Sub assemblies, spares and support machinery for capsule manufacturing".
- e. Domestic and export sales of "upgrading of the capsule manufacturing machines of other brands".

"EEPL" & "HC Management & Technical Consultancies" has given consultancies and know how on how to manufacture good capsules, to almost all Indian capsule manufacturers as well as in foreign too.

While doing all these, in year 1997, we forward integrated and set-up our own Capsule Manufacturing unit, which is **"Erawat Pharma Limited"**. Today, the quality that we are manufacturing is at par with the best in the world. The technical back-up that we have is un-matched anywhere in the world and thus we have consistency in the quality and deliveries of our product and services. Our plant is DMF Registered, GMP certified and our capsules run well on all high speed machines available in the world. Another noteworthy point is that we manufacture capsules without using EtO and SO₂.

Amit Enterprises is a proprietorship concern and it is also manufacturing "Empty Hard Gelatin Capsules".

AAA CNC Centre and **Anant machines and equipments Pvt. Ltd.** are into manufacturing of Engineering sub assemblies, job work and other such engineering related work.

THE MANAGEMENT

Of Erawat Pharma Ltd.

H.C. Jain

Our **CMD, Mr. HC Jain (ME – Mechanical)**, has a vast working experience in Engineering and Capsule manufacturing field. He was, and is still, the best consultant to capsule manufacturing units, giving consultancy on how to manufacture capsules. He has given consultancies to almost all the major reputed capsule manufacturers in INDIA and is still giving consultancies to overseas customers.

Before showing his entrepreneurial skills, he has worked with the largest capsule manufacturing unit in India and has set its quality to be suitable for International market. It was under his guidance, in year 1980-85, that major quality improvements were brought in the capsule manufacturing in this unit. At the same time, he has done great deal of R&D on the capsule manufacturing plants and today we are manufacturing highly sophisticated, totally automatic machines which can be controlled remotely from any part of the world.

Directors Of Company

VASANT H. SOLANKI

B.E. (Mech.); M.Tech. (Design) having more than 40 years of experience as Designer. He has been managing technical departments and technology in Senior Cadre.

D.S. SODHI

B.E. (Mech.) having more than 36 years of experience in manufacturing, marketing & general management at top level.

VINOD KATARIAI

B.E.(Electrical) having experience in General Management & Project Consultant since 1975.

RAJ DAMODAR KIRTANI

L.L.B, I.F.C.W.A. AIAM, AMIMA D.C.P. Having 30 years experience in Finance and Cost Accounting.

ABHISHEK JAIN

He is **BE – Mechanical** & is the key person who has redefined the capsule manufacturing process. Under his leadership, today the group is manufacturing world class capsules which are being exported all over the world. He is the one who has incorporated numerous changes in the system and procedures of the traditional capsule manufacturing. He is the one who takes care of all the pharmaceutical manufacturing of the group.

LOCATION

ERAWAT PHARMA LIMITED is located at Pithampur Industrial Area, near Indore, the Industrial Capital of Madhya Pradesh. This place is well connected to all parts of the country and the world.

Our unit is situated right beside ICD (Inland Container Depot) of Indian Container Corporation (CONCOR), which is a dry port within Pithampur Industrial Estate. This facilitates custom clearance and export of products from here thus reducing the delivery times considerably. The Industrial Estate is having a culture and environment of quality due to presence of large industrial houses with latest technology from within and through collaboration with many developed countries.



Send Online Queries Or Contact Us

Contact Person :

Mr. HC Jain - MD

Mr. Abhishek Jain - Director

Mr. Amit Jain - Director (Commerical)

For Details Contact :



Erawat Pharma Limited

MANUFACTURES OF EMPTY HARD GELATIN CAPSULES

Regd. office: 302 Anu Apartment, 21-22 Shankar Nagar, Saket, Indore-452 018, M.P. (India)

Tel: - Sales: +91 731 4259131 - 140, Purchase/Acc: +91 731 4259111 - 112 - 116,

Exports: +91 731 4259107/108/103 Fax: 91 731 2560929

Works: 512 Ind. Area No - 3, Pithampur, Dist. Dhar 454 744, M.P. (India). Tel.: +91 7292 425720

E-mail: info@erawatgroup.com URL: www.erawat.com, www.erawat.com/spanish, www.erawat.com/arabic