



SADHI PHARMA MACHINERY

Mfg -: Plants & Machineries for Pharmaceuticals
Cosmetics, Chemicals Food & Beverage Industries



WE ARE THE LEADING MANUFACTURER OF PHARMACEUTICALS & CHEMICALS MACHINERY

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**WE ARE THE LEADING MANUFACTURER OF
PHARMACEUTICALS & CHEMICALS MACHINERY**





SALIENT FEATURES

- ▣ Cartridge filter system for continuous process made of SS 316. Easily removable for cleaning purpose.
- ▣ All process parameters are interlocked, thus no possibility of batch failure
- ▣ Online sampling arrangement
- ▣ Unique spray gun for chokeless and uniform spray

SPECIALIZATION

- ▣ Top flexibility
- ▣ Simple to convert in just minutes
- ▣ Flexible thanks to modular design
- ▣ Drying, granulating and coating in a single device
- ▣ Fully automatic with scada plc control

Technical Data

ITEM		UNIT	SP-3	SP-5	SP-15	SP-30	SP-60	SP-120	SP-200	SP-300
Productivity	Top Spray	Kg/batch	3 - 6	5 - 12	10 - 30	20 - 80	40 - 150	80 - 250	200 -400	300 - 625
	Bottom Spray	Kg/batch	3 - 4.5	5 - 7.5	20 - 30	40 - 60	80 - 120	150 - 200	200 -300	300 - 450
	Tangent Spray	Kg/batch	1.2 - 4	4 - 6	10 - 20	20 - 40	50 - 80	100 - 160	160 - 220	240 - 320
Volume of Container	Top Spray	L	22	40	100	280	480	720	1000	1320
	Bottom Spray	L	11	20	50	140	210	310	450	640
	Tangent Spray	L	15	30	70	180	250	530	760	1050
Steam	Consumption	Kh/hr	40	70	99	210	300	420	530	650
	Pressure	Mpa	0.4 - 0.6							
Compressed Air		M3/min	0.5	0.5	0.6	0.8	1.1	1.3	1.5	1.7
		Mpa	0.4 - 0.8							

FLUID BED DRYER



SALIENT FEATURES

SP fluid Bed Dryers are manufactured in Modular construction mainly consisting of Main Processing (drying) unit and separate inlet air preparation unit and separate exhaust air unit giving flexible and alternative installation options to the customers as per requirements.

Suitability

The fluid bed dryers are most suitable for drying granules, crystalline, coarse or similar material in pharmaceuticals, fine chemicals, dyes, foodstuff and allied industries.

Operation

The wet material is loaded into the product container which is provided with air distributor plate and dutch weave mesh. Fresh air after filtration through coarse and 5 micron filters is heated by means of heater (steam or electrical). This hot air then passes through the product container, creating turbulence in the product and hence the product moves up and down in the product is dried fast without appreciable heat loss. Filter bag prevents particles escaping from the dryer.

Technical Data

Model	SP - 5	SP - 15	SP - 30	SP - 60	SP - 120	SP - 200	SP - 250	SP - 300	SP - 500
Container Vo. (Ltrs.)	15	45	100	200	440	650	800	980	1700
Batch Capacity in Kg.	5 - 6	15 - 20	30 - 40	60 - 75	120 - 150	200 - 225	250 - 280	300 - 300	500 - 500
Drying Temp. in Oc	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80
Motor H.P.	2	3	5	10	15	20	25	30	60
Heating load KW.	6	9	24	36	54				
Ppprox. Steam Consumption Kg/Hr	15	15	25	50	100	160	200	250	430



RAPID MIXER GRANULATOR



SALIENT FEATURES

- ▣ Ensure the round and strong granules of high density
- ▣ Meets cGMP requirements
- ▣ Dry and wet granulation in one step
- ▣ A conscious energy saver
- ▣ Perfect leak proof operation
- ▣ PLC interfaced binder feeding, WIP, Auto Powder Loading
- ▣ Detachable impeller & chopper ensure 100% cleaning
- ▣ Minimum possible gap between bottom surface and impeller ensure no deposition at bottom surface
- ▣ Environmental friendly
- ▣ Heat/Temperature sensitive products can be handled easily

- ▣ VFD controls for blades
- ▣ Totally leak proof seal for both impeller & chopper by compresses air purging interfaced with PLC
- ▣ Intelligent process control and interlock through by PLC & colour touch screen HMI with SCADA facility
- ▣ Automated dischage interlocked & interfaced with PLC

Technical Data

Model	SP - 5	SP - 15	SP - 25	SP - 50	SP - 100	SP - 150	SP - 250	SP - 400	SP - 600	SP - 1000	SP - 1200
Gross Volume (Liters)	7.5	20	33	65	130	150	250	400	600	1000	1200
Working Volume (Liters)	5	15	15	50	80	120	200	320	480	800	960
Impeller Motor HP	3 - 5	3 - 5	5 - 7.5	5 - 7.5	7.5 - 10.0	10.0 - 15.0	20.0 - 30.0	30.0 - 40.0	40.0 - 50.0	60.0 - 75.0	75.0 - 100.0
Impeller Blade RPM	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150
Chopper Motor HP	0.25 - 0.5	0.5 - 0.75	1 - 1.5	1.5 - 2.0	2.0 - 3.0	3.0 - 3.0	5.0 - 5.0	5.0 - 7.5	7.5 - 10.0	12.5 - 15.0	15.0 - 20.0
Chopper Motor RPM	1400 - 2800	1400 - 2800	1400 - 2800	1400 - 2800	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000





AIR TRAY DRYER (ATD)

Special Features :

- ▣ Uniform Drying: Tray dryers are designed to provide uniform drying throughout the material being dried, ensuring consistent
- ▣ Quality.Versatile: Tray dryers are versatile and can be used for drying a wide range of materials, including granules, powders, and herbs.
- ▣ Time-Saving: Tray dryers can dry materials quickly, reducing the time required for the drying process.
- ▣ Cost-Effective: Tray dryers are cost-effective as they require low maintenance and have a long service life.
- ▣ Easy to Operate: Tray dryers are easy to operate, and the drying process can be controlled with
- ▣ Precision.Hygienic: Tray dryers are easy to clean and sanitize, making them suitable for use in industries where hygiene is crucial, such as the food and pharmaceutical industries.
- ▣ Energy-Efficient: Tray dryers are designed to be energy-efficient, and the use of hot air as the drying medium makes them more environmentally friendly than other drying methods.



Technical Specifications Table:-

MODEL	TD- 12	TD- 24	TD- 48	TD- 96	TD- 192
LOADING CAPACITY	12 TRAYS	24 TRAYS	48 TRAYS	96 TRAYS	192 TRAYS
NO. OF DOORS	ONE	ONE	ONE	TWO	TWO
NO.OF BLOWERS	ONE	ONE	ONE	TWO	FOUR
NO OF MOTORS/H.P.	1/0.5 H.P	1/0.5 H.P	1/0.5 H.P	2/1 H.P	4/1 H.P EACH
3 PHASE 415 VOLTS	3 PHASE 415 V	3 PHASE 415 V	3 PHASE 415 V	3 PHASE 415 V	3 PHASE 415 V
ELECTRICAL HEATING LOAD FOR 100°C/ 200°C/ 300°C	3Kw/6Kw /9Kw	6Kw/9Kw/ 12Kw	9Kw/15Kw/ 18Kw	15Kw/21Kw/ 27Kw	36Kw/42Kw/ 48Kw
STEAM HEATER NO.OF COILS	2	2	2	2	2
STEAM PRESSURE	3.3 Kg /cm2	3.3 Kg /cm2	3.3 Kg /cm2	3.3 Kg /cm2	3.3 Kg /cm2
STEAM CONSUMPTION	25 LBS/ HR	45 LBS/ HR	60 LBS/ HR	80 LBS/ HR	120 LBS/ HR
INSULATION IN MM 100°C/ 200°C/ 300°C	50 / 75/ 75	50 / 75/ 75	50 / 75/ 75	50 / 75/ 75	50 / 75/ 75
NO. OF TROLLEYS	RACK SYSYTEM	RACK SYSYTEM	ONE	TWO	FOUR
TRAY SIZES	812 x 406 x 31	812 x 406 x 31	812 x 406 x 31	812 x 406 x 31	812 x 406 x 31
TROLLEY DIMENSIONS	FIXED RACKS	FIXED RACKS	840 x 960 x 1780	840 x 960 x 1780	840 x 960 x 1780



VACCUM TRAY DRYER

FEATURES

A vacuum Tray dryer works under vacuum conditions on the conduction principle. Inside the dryer are several shelves having trays on which the products are placed. The top most shelf is a dummy self place there to ensure proper heating and to prevent the dried powder from escaping into the solvent extraction system.

The shelves are constructed hollow with baffles cum stiffeners placed in between shelves. Every shelf has an inlet and outlet nozzle and is connected to an inlet and outlet header through these nozzels. A hot medium reaches the shelf through the inlet header and flows through the shelves in a uniformly zig-zag pattern ensuring faster heat transfer to the surface. This in turn heats up the trays on the shelves. The hot medium flows out from shelf through the outlet header.



Technical Data

Model	SP	SP	SP	SP	SP	SP
Capacity	3	6	12	24	48	96
Tray Size	800 X 400 X 50mm in SS 304 / 316 Quality					
No of Shelves	3+1	6+1	6+1	8+1	16+1	16+1
Tray / Shelves	1	1	2	3	3	6
Chamber Thickness	8	8	8	8	8	8
Condenser (Sq.m)	0.5	1	1.5	2	3	5
Receivers (Litrs)	10	25	50	80	100	150

ROTOCONE VACCUM DRYER



FEATURES

Rotocone Vacuum Dryer is suitable for drying of materials which cannot resist high temperature, materials which are easily oxidized, volatile materials which should be retrieved, materials that are strong irritants and poisonous in nature. The Roto Cone Dryer facilitates enhanced drying efficiency, low temperature operation and economy of process by total solvent recovery. It helps cGMP base working by achieving

optimum dust control, while offering advantages of efficient charging and discharging of materials. the drying unit equipped with lump breakers initially breaks large lumps and subsequently powders them (in a single cone). The rotary action of the dryer together with mechanical action of the breakers cuts down drying time and gives a lump-free product.

Technical Data

Model	SP 15	SP 100	SP 200	SP 300	SP 500	SP 750	SP 1000	SP 1500	SP 2000	SP 3000
Total Volume in Ltrs	15	100	200	300	500	750	1000	1500	2000	3000
Working Volume in Ltrs	9	60	120	180	300	450	600	900	1200	1900
Capacity in Kg (Max)	5	30	75	100	175	250	350	500	700	1050
RPM	6	6	6	6	6	6	6	6	6	8
Heat Transfer area in m ²	0.5	3.5	4.2	5	6	7	8	9.5	11	13.3
Cyclone Separator in Ltrs	1	5	7	10	15	20	25	30	40	100
Condenser in m ²	0.1	0.5	0.75	1	1.5	2	2.5	3	4	8
Receiver in Ltrs	3	20	40	50	75	100	150	200	250	300
Charging Ht in mm	700	1350	1500	1650	1800	2000	2300	2500	2650	3685
Discharging Ht in mm	300	600	650	650	700	650	750	750	750	850
Charging Size in mm	•150	•250	•300	•300	•350	•400	•400	•450	•500	•500
Discharging Size in mm	•75	•125	•150	•150	•175	•200	•200	•220	•250	•300
Gear Box	2"	2.5"	3"	3"	4"	4"	5"	6"	7"	8"
Main Drive Motor	0.5 HP	2 HP	3 HP	3 HP	5 HP	5 HP	7.5 HP	7.5 HP	10 HP	12.5 HP
Lump Breaker Motor	-	-	-	0.25 HP	0.25 HP	0.5 HP	0.5 HP	0.5 HP	1 HP	1 HP

Design Temp: 200C, Testing: Vacuum side Full Vacuum upto 750 mm of Hg & Steam / Hot water jacket side 5 Kgs / cm² pressure test.





OCTAGONAL BLENDER



Salient Features

- Octagonal Blender is supplied with a bin charging system or can be designed for vacuum charging.
- It is very useful machine for pharmaceutical industry where in gentle blending of dry granules of powders is to be done. It is a slow speed blender and has a removable baffle mounted through a rectangular openable lid, other important feature of this machine is ease of cleaning in place.
- The bin charging system can also be incorporated in it which is a dust free closed system for charging and discharging of powders or granules.
- The bin charging system can also be incorporated in it which is a dust free closed system for charging and discharging of powders or granules.
- Capacity available 5 L to 10000 L (higher capacity on demand upto 10000 L)

Technical Data

Model	Volume in Litres	Discharge Butterfly Valve	Gear Box	Motor	Dimension L x W x H
SP - 70	100	4"	2"	1 HP	1150 x 1160 x 1575
SP - 140	200	6"	2"	1 HP	1560 x 984 x 1517
SP - 210	300	6"	3"	1.5 HP	1625 x 1190 x 1641
SP - 350	500	6"	3"	1.5 HP	1850 x 1304 x 1842
SP - 525	750	8"	3 1/2"	2 HP	2000 x 1453 x 1986
SP - 700	1000	8"	4"	3 HP	2230 x 1520 x 2060
SP - 875	1250	10"	4"	3 HP	2380 x 1595 x 2122
SP - 1050	1500	10"	5"	5 HP	2480 x 1643 x 2172
SP - 1400	2000	10"	5"	5 HP	2700 x 1760 x 2290
SP - 1750	2500	12"	6"	7.5 HP	2800 x 2010 x 2537
SP - 2100	3000	12"	7"	10 HP	3000 x 2142 x 2671
SP - 2450	3500	12"	7"	10 HP	3100 x 2289 x 2860
SP - 2800	4000	12"	8"	12.5 HP	3150 x 2350 x 2890
SP - 3500	5000	12"	8"	15 HP	3450 x 2436 x 2968



RIBBON BLENDER



FEATURES:

- ▣ Available in working capacity of 5 liters - 10,000 liters.
- ▣ Available in all grades of stainless steel, carbon steel and special alloy steels.
- ▣ Ribbon agitator for center discharge.
- ▣ Designed for atmospheric operation.
- ▣ Top cover with nozzle for material charging.
- ▣ Centrally located flush bottom discharge valve.
- ▣ Jacket available for heating & cooling purpose.
- ▣ Stuffing boxes with easily disassembled housings. PTFE gland packing provided.



Technical Data

Model	Gross Cap in Liters	Working Cap in Liters	Dimension in mm L x W x H	RPM	HP
SP - 1	150	100	1600 x 800 x 1250	15 / 30	3 / 5
SP - 2	500	325	1800 x 800 x 1300	15 / 30	5 / 5
SP - 3	1000	650	2500 x 1000 x 1500	15 / 30	7.5 / 10
SP - 4	2000	1300	3500 x 1200 x 1750	15 / 30	10 / 15
SP - 5	3000	2000	4000 x 1500 x 2000	15 / 30	20 / 25
SP - 6	4000	2600	4500 x 1800 x 2000	15 / 30	25 / 30
SP - 7	5000	3250	4950 x 1800 x 2000	15 / 30	30 / 40
SP - 8	7500	5000	5450 x 2000 x 2000	15 / 30	40 / 50
SP - 9	10000	6500	6000 x 2000 x 2000	15 / 30	60 / 75



Conta Blender

Features

- A suitable fencing around the cage with an entry point for the bin on detachable trolley.
- Limit switch on entry door to prevent the accidental operation of the cage.
- Flexibility of accepting variable bin size providing wide range of batch volumes.
- cGMP construction with cladded polished S. S. sheets.



CAPACITY OFFERED

- 5 Kgs. to 1000 Kgs.

Tipper



Features

It is an equipment operated hydraulically or mechanically for lifting and tipping FBD bowl loaded with dried granules. contents of the bowl is transfer smoothly to a granulating equipment and through it to a BIN or an IPC container.



Technical Data

F.B.D. BOWL CAPACITY	LIFTING DEVICE	ROTATING MECHANISM
60 kgs	1 HP.	1 HP.
100 kgs	1 HP.	1 HP.
150 kgs	1.5 HP.	1 HP.
200 kgs	2.0 HP.	2 HP.
250 kgs	2.0 HP.	2 HP.
300 kgs	2.0 HP.	2 HP.
350 kgs	2.0 HP.	2 HP.
400 kgs	3.0 HP.	2 HP.

Autoclave



Salient Feature

- ▣ For Sterilization of glass wares / containers, vessels, linen rubber articles etc.
- ▣ All size in rectangular and cylindrical shapes.
- ▣ Single / Double and hinged / Sliding doors with high temperature resistant silicon gaskets.
- ▣ Conventional / Dimpled jacket.
- ▣ Complete 316 or economy model with only contact parts in ss 316.
- ▣ Standard Cycles and HP/ HV Cycles.
- ▣ Manual / Fully automatic / P.L.C. based control System covering all parameters including printouts of F values.
- ▣ Conforming to various international specifications.
- ▣ Options like electric steam generator, Vacuum pump, Carriage, Trolleys etc.
- ▣ Provision of rubber bung drying / processing system.

Sparkler Filter



Salient Feature

- ▣ Maintenance can be easily carried out just by lifting the dome i.e. without lifting the cartridge.
- ▣ Quick and easy remove of filter plate cartridge for cleaning of cake.
- ▣ Filtrate is obtained without scavenging agents.

Technical Data

Model	SP - 08		SP - 14			SP - 18				SP - 24		
Plate Diameter	8"		14"			18"				24"		
No. of Plates	6	8	8	10	12	10	15	18	24	15	18	24
Filtering Area (m2)	0.217	0.279	0.819	1.001	1.183	1.65	2.40	2.85	3.75	4.192	5.035	6.625
Cake Holding Capacity Ltrs.	4.9	6.3	24.75	30.25	37.75	55	80	95	125	144	171	225
Flow Rate / hr	600	800	1500	1700	1900	4000	5500	6400	8200	7000	8500	12500
Pump Size and Power	1/2"	1 HP	1"	2 HP		1 1/2"	3 HP			2"	5 HP	



Coating Pan



COATING PAN

- ▣ Sadhi Pharma cGMP Model coating pan system

Salient Feature

- ▣ Facility of angular adjustment of coating pan facilitate the perfect angle for coating different product .

Available Size

- ▣ 12" 24" 30" 36" 48" 60" 72"



Starch Paste Kettle

Features

- ▣ All contact part made of SS 316 as per GMP standard.
- ▣ Hemispherical design for proper mixing paste.
- ▣ Jacket provided with steam/thermic/fluid heating arrangement.
- ▣ Driven via motor and gear box assembly mounted on top.
- ▣ Tilting arrangement for kettle is provided for discharge for starch paste.
- ▣ Anchor type impeller design for proper mixing of paste.
- ▣ Safe earthing system



Vibro Shifter



FEATURE

- ▣ **MOC:-**
SS316L/SS316/S
S304

OPTIONS

- ▣ Flam proof motor with FLP push button switch.
- ▣ Magnetic arrangement for tray of iron particles.
- ▣ Extra deck Available
- ▣ GMP Model



Multi Mill

SALIENT FEATURE

- ▣ **MOC:-**
SS316L/SS316/SS304
- ▣ Suitable for dry granulation/pulvlizeing /shredding and chopping of materials.

Model Available

- ▣ 1HP/3HP/5HP/7.5HP





This range spans high-quality finished 500-litre vessels for pharmaceutical end products to 15,000 m³ tanks for drinking water or the storage of semi-finished products in the chemical industry.

FULLY AUTOMATIC LIQUID / ORAL PROCESSING PLANT

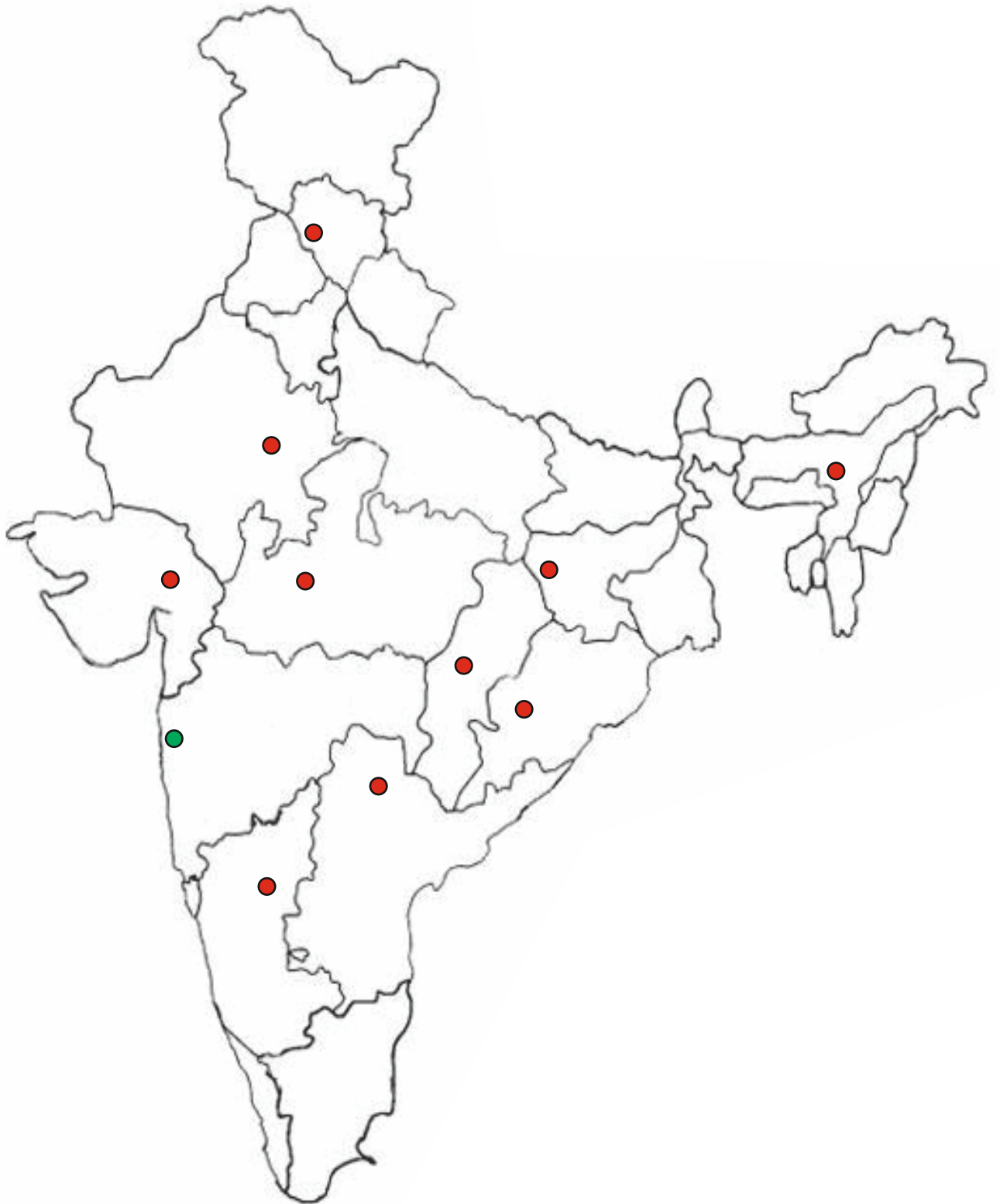


Our Syrup Manufacturing Plants, Mixing machines and equipments including Pharmaceuticals Syrup Manufacturing Plants, Oral Suspension Manufacturing Plants, Oral Emulsion Manufacturing Plants, Mixture Manufacturing Plants, Linctuse and Elixir LIQUID ORAL Manufacturing Plants are ideal tools for the pharmaceutical industry for the production of Oral dose Liquids.

Fully automatic Liquid Syrup Manufacturing Plant/liquid manufacturing plant consisting of :

- Sugar Charging / Transfer System.
- Sugar Melting Vessel with mixing stirrer.
- Basket Filter & Transfer Pump.
- Syrup Manufacturing Vessel with a stirrer.
- Inline Homogenizer.
- Zero Hold up Filter press.
- Storage Tank with a stirrer.
- Interconnecting pipeline.
- Transfer Pumps.
- Integrated automatic control panel.
- Working Platform.

**Providing Solutions to
Pharmaceutical &
Chemical Industries
with our Expertise since 2001**





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