



RAVI RAJ
ENGINEERING

An ISO 9001:2015 Certified Company

Chemical Pharmaceuticals

- Plant Equipments
- Structural Fabrication
- Project Work
- Maintenance & Machining Works

➤➤ Company Profile

RAVIRAJ ENGINEERING is an established company with a team of expert technocrats having 15 years of experience in designing and manufacturing all kind of process equipments.

It gives us great pleasure to introduce ourselves as one of the leading manufactures of process plant equipments for various pharmaceutical industries, bulk drugs, resin industries, adhesives, petrochemicals, dyes, paint industries & speciality and fine chemical industries.

During the last decade of our experience we have fabricated various equipments such as Pressure Vessels, Reactors, Heat Exchangers / Condensers, Ribbon Blenders, Storage Tanks, Box Condenser, Hydrogenerator, Auto-cleave etc.

Our equipments are designed as per the latest international standards like ASME Sec 8/9, API, Tema, WPS-PQR, Welder Qualification Work & also GMP standards.

➤➤ Quality Control

Sufficient range of quality assessing equipments to ensure the quality of products.

IN HOUSE

- Hydro Test Facility
- Pneumatic Test Facility
- Load Test
- Dye Penetration Test Kit
- Radiology Film Viewer
- Moly Test
- Run Out Test
- Dmeter (Thickness Gauge)

EXTERNAL

- Physical & Chemical Testing of Materials (Met Heat Baoda)
- Ultra Sonic Testing
- Dynamic & Static Balancing
- Radiography

➤➤ Company Profile

Works Operational	: April 2003
Status	: Small Scale Industry Unit (S.S.I. Unit)
Type of Firm	: Ownership Firm
Year of Establishment of Firm	: April 2003
Office Address	: P-42, 43, 44, Yogi Estate - 3, G.I.D.C., Ankleshwar - 393 002.
Contact Person	: Swatil Sonani (+91 75676 77475) Kashyap Patel (+91 98252 93942)
E-mail	: ravirajengineeringsk@gmail.com
Plot Area	: 1235 Sq. Meter

➤➤ Government Registrations

PAN NO.	: BFUPM30983E
GSTIN	: 24BFUPM3098E1Z2
Service Tax No.	: BFUPM30983ESD001
MSME	: GJ06A0008576
TAN No.	: BRDK02958E

➤➤ Bank Account Details

Bank Name	: AXIS Bank Ltd. Station Road, G.I.D.C. Ankleshwar - 393 002. Dist. Bharuch, Gujarat, India
Current Account No.	: 911020039350854
NEFT/RTGS/IFSC Code	: UTIB0000458

➤➤ Reaction Vessels

RAVIRAJ ENGINEERING are instrumental in producing a wide range of industrial reactors that serve diverse industrial requirements. Specially fabricated to accuracy using qualitative material. We have been manufacturing a comprehensive assortment of Vertical Reactors that can be constructed either in M.S. or S.S. Stirrers like Anchor, Propeller, Turbine etc. with different RPM are provided as per customer's requirements.



IN HOUSE

- Jacketed Reactor
- Limpet Coiled Reactor
- Internal Coil Reactor
- M.S. Rubber Lined Reactor
- M.S. Lead Bonded Reactor
- GMP / Non GMP Reactor

APPLICATIONS

- Fertilizers
- Food and Dairy Industries
- Petrochemical Industries
- Pharmaceutical Industries

REACTION VESSEL SPECIFICATION DATA SHEET															
TYPE : Cylindrical Vertical with 10% Torispherical Dish End															
Capacity		Shell		Dish	Shaft		Heating / Cooling System					No. of	No. of	Motor	Gear
	I/D	HT	THK	THK			Jacket			Limpet		Turns	Turns		
							Shell		Dish	Pipe Size	THK	on Shell	on Dish		
						I/D	HT	THK	THK	(NB)	(SCH)				
1000	1020	1250	6	8	8	1120	1120	6	8	65	40	8	3	5	V.400
2000	1310	1500	6	8	8	1410	1410	6	8	65	40	10	4	7.5	V.500
3000	1500	1700	6	8	8	1600	1600	8	10	65	40	11	5	7.5	V.600
4000	1600	2000	6	8	8	1700	1700	8	10	65	40	14	5.5	10	V.600
5000	1690	2250	6	8	8	1790	1790	8	10	65	40	16	6	12.5	V.600
8000	2020	2500	8	10	10	2120	2120	10	12	80	40	16	6	15	V.700
10000	2260	2500	8	10	10	2360	2360	10	12	80	40	16	6.5	15	V.700
12000	2380	2700	8	10	10	2480	2480	10	12	80	40	17	7	20	V.800
15000	2530	3000	10	12	12	2630	2630	12	14	80	40	20	8	25	V.1000
20000	2610	3750	10	12	12	2630	2630	12	14	80	40	25	8	30	V.1200
25000	2800	4100	12	14	14	2900	2900	12	14	80	40	27	10	30	V.1200

➤➤ Pressure Vessel / Autoclave Reactor / Hydroginator Reactor

- We manufacturing and design wide range of pressure vessels for gas & liquid application with internal & external heat transfer
- We provide customize solution as per clients requirement
- Material of construction - MS, BQ, SS316, SS316L, Cladding
- As per standard ASME section -8 & 9. Design in house.

➤➤ Hydroginator Reactor

- Hydroginator reactors are specially design for various gas liquid reaction
- These reactors are fitted with specially design agitator which creates very high gas liquid contacts area by reticulation of head space gases leading to superiors mass transfer rates
- Agitator is available with mechanical seals



ADVANCE

- High mass transfer area
- Faster reaction
- Shorter batch time
- Lesser catalyst loading
- Minimum impurities
- Better product economy

APPLICATIONS

- for various gas liquid reaction
- hydrogen, Ethylene Oxide
- Ammonia, Oxygen
- Air, HCL
- Phosgene, Co2, Co



➤➤ Storagen Tank

- FABRICATION SS AND MS STORAGE TANK
- SIZE :- 110 KL AND MINIMUM 1 KL
- BLASTING AND PAINTING IN HOUSE



➤➤ Agitated Nutsche Filter

The Agitated Nutsche Filter type is a Nutsche type filter designed to separate solids from liquids. It is totally enclosed and normally operated under pressure or vacuum. Additionally, the equipment is fitted with a stirrer mechanism which efficiently agitates the slurry during cake washing, smoothness and squeezes the cake during filtration and assists in the automatic discharge of the cake.

The ANF comprises of a pressure vessel with a bottom filter bed, in which is a combination of filter and dryer unit in single equipment to achieve economy in process, space, energy & labour cost, thereby improving profitability. This equipment also reduces the validation documentation, which is very critical and cumbersome on Pharma industry, since it helps reducing the number of equipments downstream.



➤➤ Octagonal Blender

RAVIRAJ ENGINEERING make Octagonal Blender which is an efficient and versatile blending machine for mixing and lubrication process of dry granules homogeneously. Two third of the volume of the Cone Blender is filled to ensure proper mixing.

The Octagonal Blender gives best result for granules due to very slow speed and octagon shape of container. It can be used to Pharmaceutical, Food, Chemical and Cosmetic products, etc.



FEATURES

- Suitable for dry mixing of products in granular form
- Easy for loading and unloading of material.
- Easy for cleaning.
- All contract parts are made out of SS304/SS3116 or L quality material, as per customer requirements
- The octagonal shape & slow speed of rotating gives sufficient continuous movements to the granules, result in good quality

➤➤ Ribbon Blender

The ribbon blender that **RAVIRAJ ENGINEERING** manufacture is an efficient and versatile blending machine for mixing of dry granules & provides homogenously. Approximately two third volume fo the container of Ribbon Blender is filled to ensure prope mixing.

FEATURES

- Less Working Time
- Lesser Maintenance Cost
- No Dust Formation
- Less Service after Sales



➤➤ Distillation Columns

RAVIRAJ ENGINEERING offers wide range of distillation columns with high efficiency and are designed for effective distillation process. Our distillation columns are available for customization & designed results in the separation of liquids.

FEATURES

- Robust Design
- No Dust Formation



➤➤ Industrial Reboiler

RAVIRAJ ENGINEERING are widely known in the industry for manufacturing Reboilers for various industrial purposes. Our wide array of qualitative Reboilers are heat exchangers which are used to provide heat to the bottom of industrial distillation columns & efficiently boils the liquid from the bottom of distillation columns and generates vapors, which are returned to the column to drive the distillation separation.



➤➤ Receivers

RAVIRAJ ENGINEERING designs & fabricates various types of Receivers under stringent fabrication codes with provision for mounting safety & control devices.

FEATURES

- Built as per Indian Foreign standards
- Capacities can be designed as per clients requirements
- Available in horizontal as well as vertical models.



➤➤ Chimney

- Discharge flue gases to the atmosphere totally sealed and protected from contamination
- Reduce the Impact of greenhouse gases
- Energy saving
- Smooth Exhaust Combustion gases into the air



➤➤ Heat Exchangers

RAVIRAJ ENGINEERING designs and fabricates, precision engineered heat exchangers that are in tune with the technology and standard. These heat exchangers are Provided to our clients in standard and customized forms and at highly economic price.

1. SHELL & TUBE CONDENSER

HEAT EXCHANGER SPECIFICATION DATA SHEET								
Heat Trst. Area		Shell		Tube Sheet		Tubes		
M2	O/D	HT	LG.	O/D	THK	O/D	Pitch	No. of Tubes
5	273	6	1500	380	22	25.4	32	42
6	300	6	1500	462	22	25.4	32	50
10	323	6	2000	485	25	25.4	32	64
12	356	6	2000	486	25	25.4	32	80
15	406	8	2000	520	28	25.4	32	94
20	406	8	3000	520	28	25.4	32	94
25	406	8	3000	537	28	25.4	32	104
30	457	8	3000	590	30	25.4	32	126
40	530	8	3000	660	35	25.4	32	168
50	600	10	3000	730	40	25.4	32	210
100	700	12	3000	840	45	25.4	32	424



FEATURES

- Dimensional Accuracy
- Close Tolerance
- Heavy duty Drilling Capacity

2. BOX CONDENSOR

HEAT TRST.AREA M2	TUBE SHEET THK SS 316	SHELL LENGTH	SHELL THK SS 316	TUBE OD SS 316	TUBE THK	NO OF TUBE (500 MM LONG)	DOOM SHELL THK SS304	BAFFEL SS 316	HYDRO TEST SHELL / TUBE SIDE
12 M2 = (9M2 P + 3 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	285 +104=389	5 MM	6 MM THK	3 KG/CM2
15 M2 = (12M2 P + 3 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	378 +104=482	5 MM	6 MM THK	3 KG/CM2
16 M2 = (12M2 P + 4 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	378 +138=516	5 MM	6 MM THK	3 KG/CM2
17 M2 = (12M2 P + 5 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	378 +172=550	5 MM	6 MM THK	3 KG/CM2
19 M2 = (14M2 P + 5 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	438 +172=610	5 MM	6 MM THK	3 KG/CM2
20 M2 = (15M2 P + 5 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	510 +136=646	5 MM	6 MM THK	3 KG/CM2
21 M2 = (16M2 P + 5 M2 S)	12 MM THK	500 MM	6 MM THK	19.03 MM	2.1 MM	538 +136=674	5 MM	6 MM THK	3 KG/CM2

➤➤ Advantages

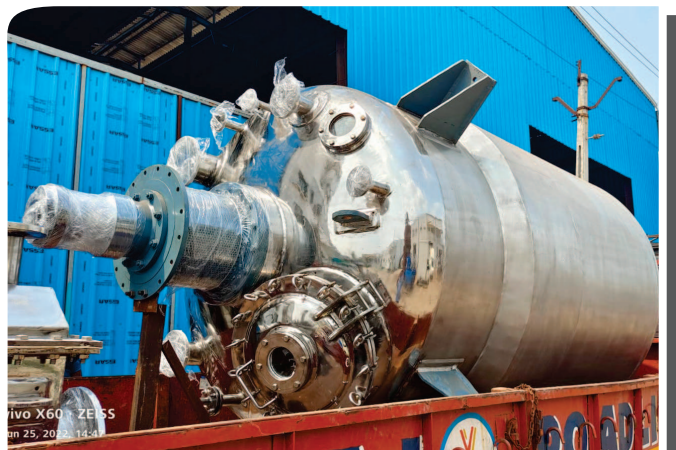
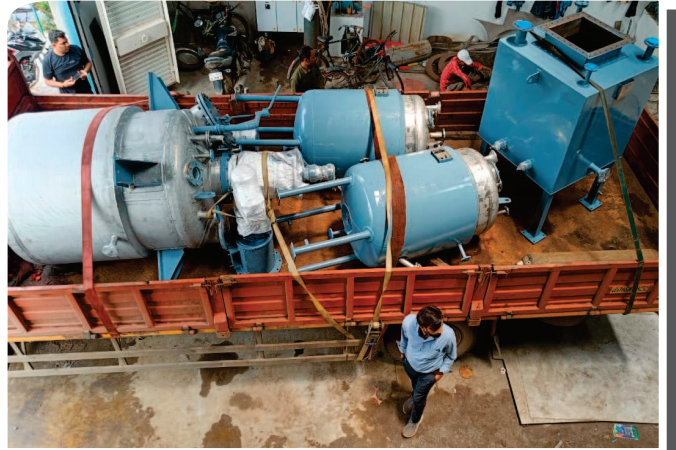
1. **COMPACT DESIGN** : REDUCED SIZE OF HEAT EXCHANGERS BY 30-40%
2. **ECONOMICAL** : UP TO 30-50% SAVINGS
3. **SINGLE UNITS** : ONE BOX UNIT REPLACES BOTH PRIMARY AND SECONDARY CONDENSERS AND SOLVENT RECOVERY SYSTEM.
4. **FULLY DRAINABLE** : 100% DRAINABLE ON BOTH SIDES.
5. **EFFICIENCY** : HIGHER CONDENSATION EFFICIENCY THROUGH CROSS FLOW
6. **CLEANABILITY** : HIGHER RESPONSE TO CIP CLEANING.

NOTE: -

1. TEMA CLASS B & ASME SECTION VIII.DIV.1 (LATEST)
2. PROCESS - SHELL SIDE - PROCESS SS 316 & UTILITY SIDE - TUBE SIDE SS 304
3. FINAL FINISHING OUT SIDE 240 GR MIRROR BUFFING.
4. P - PRIMARY AND S - SECONDARY



► Our Work



CUSTOMER LIST

- ACMECHEM LIMITED – PANOLI
- ACQUIRE CHEMICALS - ANKLESHWAR
- ADEN PHARMACEUTICALS PVT. LTD.-PADRA
- AGROCEL INDUSTRIES PVT. LTD. – BHAVNAGAR
- AGROCEL INDUSTRIES PVT. LTD. – KUTCH
- AMBANI ORGANICS LTD.-DAHEJ
- AMBICA CHEMICALS-ANKLESHWAR
- AMSALCHEM PVT. LTD.-ANKLESHWAR
- ANSHUL SPECIALITY MOLECULES PVT. LTD.-HALOL
- APEX PHARMA CHEM- ANKLESHWAR
- APPLE LIFE SCIENCE-PANOLI
- AXIS PHARMA CHEM- ANKLESHWAR
- BELIEVE PHARMA-SACHIN
- BGP LABORATORIES PVT. LTD. - ANKLESHWAR
- BHAGWATI FAB ENGINEERS PVT. LTD.
- CHEM-PACK INDUSRIES- ANKLESHWAR
- CHEVRON PHARMA PVT. LTD. - ANKLESHWAR
- COLOSPERSE DYES AND INTERMEDIATES PVT. LTD. – SACHIN
- CRYPTON PIGMENT PVT. LTD -JAGADIA
- DEEPAK NITRITE LTD - DAHEJ
- DELTA HITECH COATINGS PVT. LTD. - SACHIN
- DEVANSHI DYESTUFE - ANKLESHWAR
- DRAGNET CHEMICALS PVT. LTD.-PANOLI
- ELANTAS BECK INDIA LTD.-ANKLESHWAR
- ENERGYMAX BOILER LLP-ANKLESHWAR
- GHPS ENGINEERING WORKS
- GUJARAT FLUOROCEMICALS LTD.
- HARIHAR PHARMA CHEM PVT. LTD. -ANKLESHWAR
- IMPRO INTERCHEM PVT. LTD.
- JAL AQUA INTERNATIONAL
- JAY CHEM INDUSTRIES-ANKLESHWAR
- KANAIYA ENTERPRISES-ANKLESHWAR
- K. C. LABORATORY-ANKLESHWAR
- K. PATEL CHEMOPHARMA PVT. LTD. -ANKLESHWAR
- K. PATEL DYE CHEM INDUSTRIES PVT. LTD. -ANKLESHWAR
- L M INDUSTRIES-PANOLI
- MACSON COLOUR CHEM PVT. LTD.-DAHEJ
- MACSON PRODUCTS-SACHIN
- MANGLAM CHEMICALS-ANKLESHWAR
- MARUTI INDUSTRIES-PANOLI
- MERCHEM LTD.-PANOLI
- M/S. COLOSPERSE DYES AND INTERMEDIATES-SACHIN
- NAVADIA FINE CHEM-ANKLESHWAR
- NIRMAL CONSTRUCTION-ANKLESHWAR
- NOCIL LTD. -ANKLESHWAR
- PAB ORGANIC PVT. LTD.
- PATEL BOILER SERVICES-ANKLESHWAR
- PATSON CHEMICALS-BHAVNAGAR
- POLE STAR INDUSTRIES-ANKLESHWAR
- PRANAMI DRUGS PVT. LTD. -ANKLESHWAR
- PREETEN HEALTHCARE PVT. LTD. -ANKLESHWAR
- PRUDENCE LIFECARE PVT. LTD. -ANKLESHWAR
- PRUDENCE PHARMA CHEM-ANKLESHWAR
- RAPICUT CARBIDES LTD. -ANKLESHWAR
- RAVICHEM INDUSTRIES-ANKLESHWAR
- RAVIRAJ CHEMICALS-ANKLESHWAR
- REAL CHEM-SACHIN
- REGAL REMEDIES LTD. – UNIT 2-ANKLESHWAR
- REGAL REMEDIES LTD. – UNIT 1-ANKLESHWAR
- REMARK TECHNOLOGIES-PANOLI
- RR CHEM-RAJKOT
- RUDRAKSH INDUSTRIES
- SAJJAN INDIA LTD. -ANKLESHWAR
- SEJAL CHEM TECH INDUSTRIES-ANKLESHWAR
- SHREE DUTT AGROCHEM-PANOLI
- SHREE GANESH INDUSTRIES-SACHIN
- SHREE SULPHAMIC CHEMICALS-ANKLESHWAR
- SIGMA LIFE SCIENCE-PANOLI
- SPAN REMEDIES PVT. LTD. -ANKLESHWAR
- SRF LTD.-DAHEJ
- STRIDE INDUSTRIES-ANKLESHWAR
- SUKHA CHEMICAL INDUSTRIES-ANKLESHWAR
- SHARDIN INTERMEDIATES – DAHEJ
- OIL AND NATURAL GAS CORPORATION LTD. – ANKLESHWAR
- TAPI PIGMENTS-SACHIN
- TIVAN SCIENCES PVT. LTD.-RAJKOT
- UNITED WOLFRAM-KOSAMBA
- UNIVERSAL CHEMICALS AND INDUSTRIES PVT. LTD. -ANKLESHWAR
- VANDANA CHEMICALS-ANKLESHWAR
- VASOYA INDUSTRIES PVT. LTD.PIPODRA
- VERNI GASTECH PVT. LTD. -ANKLESHWAR
- WANKSONS CHEMICAL INDUSTRIES PVT. LTD.-PANOLI
- WOCKHARDT LTD. -ANKLESHWAR

📍 Plot No. 42, 43 & 44, Yogi Estate-3,
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Ankleshwar - 393 002.

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