



Magirsha Industries



Engineered  
to  
deliver client satisfaction



ISO 9001:2008



www.tuv.com  
ID 9105017278

## About Us:

Magirsha Industries was established in 1975 by Mr. Rohit M. Desai, who had started the firm with the conviction to provide best of products and services with high level of technical expertise, timely delivery and rigid adherence to the standards of integrity at all levels. Since past 38 years, we can proudly say we have been successful in doing so.

We are in the business of design and manufacturing of chemical process plant equipment, namely, pressure vessels, heat exchangers, reactors, distillation columns, storage tanks, etc. in Carbon Steel, Stainless Steel, Low Alloy Steel, LTCS and CSRL materials. The company also deals in pneumatic systems for dry bulk transportation, mobile explosive charging unit, screw conveyors and special purpose machineries for atomic energy projects.

Till date, we have supplied more than 4000 equipment to the below listed Indian and International clients' entire satisfaction and are performing since then.

The firm is certified by TUV Rheinland India Ltd., for ISO 9001:2008, for design and manufacturing of pressure vessels, reactors, heat exchangers and distillation columns for Chemical, Fertilizer, Hydrocarbon Industries and manufacture of Special purpose equipment for atomic projects. Below mentioned are our renowned clients and the third party inspection agencies with whom we have executed orders.

<b>Client List</b>	<b>Third Party Inspection Agencies</b>
Gujarat State Fertilizers & Chemicals Ltd. - Vadodara, Sikka	Lloyd's Register Industrial Services Ltd., Mumbai.
Gujarat Narmada Valley Fertilizers Co. Ltd. – Bharuch	Engineers India Ltd.
Gujarat Alkalies & Chemicals. - Vadodara, Dahej (India).	Jacob Humphrey & Glasgow Consultants P. Ltd. Mumbai.
Krishak Bharati Co-operative Ltd. – Surat (India).	Uhde India Ltd., Mumbai.
Indian Petrochemicals Corp. Ltd. – Vadodara, Dahej, Nagothane (India).	Baxcounsel Inspection Bureau P. Ltd., Mumbai.
Indian Oil Corp. Ltd., Refinery Division – Vadodara, Mathura (India).	Project and Development India Ltd., Baroda.
Reliance Industries Ltd. – Mumbai (India).	Simon Carves India, Mumbai.
Department of Atomic Energy – Mumbai, Tarapur (India).	Fact Engineering and design organization, Cochin.
Narmada Chematur Petrochemicals Ltd. – Bharuch (India).	IBI Chematur Ltd., Mumbai.
Kanoria Chemicals Industries Ltd. – Renookut (India).	Tecnimont ICB Ltd., Mumbai.
Farabi Petrochemical Co. KSA. - Saudi Arabia.	Department of Atomic Energy, Mumbai.
Daelim Industrial Co. Ltd. – India, South Korea.	The Chief Inspector of Boilers (IBR), Gujarat State.
Patcham Ltd. – Sharjah (UAE).	The SGS India (Industries Services).
Gulbrandsen Chemicals Pvt. Ltd. – India, USA.	Indian Register of Shipping, Baroda.

## The Founder:

The founder of Magirsha Industries, Rohit M. Desai, a technocrat with about five decades of total experience in engineering field, had obtained B.E. (Mech) and B.E. (Elec) degrees from M.S. University, Vadodara with first class with distinction. He, further attained master's degree in General Machine Design in Mechanical engineering from University of California, Berkeley, USA in the year 1965.

He started his professional career with National Cash Register and Western Gear Corp, Los Angeles, USA and worked there as design and development engineer from 1965 to 1967. Starting 1968, for the next three years he worked with Ralph M Parsons Co., Mumbai, India, as a Mech. Design engineer. From 1970 till 1975 he worked with Gujarat State Fertilizers & Chemicals Co. Ltd. (GSFC), Vadodara, Gujarat, as a Design Engineer (Mech.). In March 1975, this company named “Magirsha Industries” was

## **Membership:**

1. Indian Institute of Plant Engineers.
2. Indian Society of Non-Destructive Testing.
3. Federation of SSI.
4. Institution of Engineers (India).
5. Indian Institute of Materials Management.
6. Indian Institute of Welding.
7. Exim Club.
8. Engineering Export Promotion Council.

## **Facilities:**

The Company is located in GIDC, Makarpura Industrial Estate, which is within Baroda city limits and is well connected with road and rail. It has all industrial infrastructure facilities. The company owns land/ building admeasuring as follows:

Total Plot area:	1800 sq. m.
Open area:	550 sq. m.
Workshop Enclosed area:	600 sq. m.
Office area:	200 sq. m.

We can even manufacture equipment weighing upto 50 MT by hiring other facilities on rate contract basis. We have a machineshop and a fabrication shop with the Installed machineries as follows:

<b>Sr.No</b>	<b>Description of Machine</b>	<b>Capacity</b>	<b>Manufacturer</b>
1	Plate Bending Machine	3000 mm x 25 mm thk.	Panchal Bros., Ahmedabad
2	Welding Rectifier, Model MRD-400	400 Amp.	MEMCO, Mumbai
3	Welding Generator	300 Amp.	Advani Oerlikon, Pune
4	Welding Rectifier, Model GR 401	400 Amp.	Advani Oerlikon, Pune
5	Tig Welding & Plasma set	400 Amp.	IAE, Vadodara
6	Tig Welding Set	400 Amp.	IAE, Vadodara
7	Welding Transformer	300 Amp.	GEM, Mumbai
8	H.O.T Crane, Double Girder Type with electrical lifting movement.	10 MT x 15 m Span x 5.5 m lift.	Own Make
9	E.O.T Crane, Single Girder type	5 MT x 15 M Span x 7 m lift	SAFEX, Ahmedabad
10	Radial Drilling Machine, Model BR 615	1.5m Rad Arm x 60 mm drill size	Batliboi, Udhana

<b>Sr.No</b>	<b>Description of Machine</b>	<b>Capacity</b>	<b>Manufacturer</b>
11	Radial Drilling Machine	1 m Rad Arm x 40 mm drill size.	Energy, Jamnagar
12	Lathe, Model Shimoga	9.3/4" Center Ht. X4 ft. Admit	Kirloskar, Bangalore
13	Lathe	13" Center Ht x 5 ft Admit.	Panchal Ahmedabad
14	Shaping Machine	24" stroke	SV Panchal, Ahmedabad
15	Milling Machine for Hor. & Vert. Milling	300 x 500 mm Table	KST, Ludhiana
16	Automatic Hacksaw Machine	8" dia rod size	Jaswant, Batala
17	Electronic Tube Expander	10-218 mm Tube size	Powermaster, Mumbai
18	Screw Press	50 MT	Own Make
19	Tripod with chain Pulley Blocks (3)	10, 3 & 1 MT x 5m lift	INDEF, Mumbai
20	Hydrostatic Testing Pump	Upto 180 Kg/cm <sup>2</sup> g	-
21	Air Compressor	15 Kg/ cm <sup>2</sup> g x 0.21 m <sup>3</sup> / min Flow rate	Ingersoll Rand, Ahmedabad
22	Pug cutting Machine (2)	Upto 150 mm thk.	IOL, Nasik
23	Electrode Heating Oven	300 ° C	Sigma, Vadodara
24	Hand drill M/c (2), Angle Grinders (5) Hand Grinders (4), Shaft Grinders (2), Bench Grinder (1).		Rallis, Black & Decker, Rockwell
25	Water well with Head pump	100 LPM	LML , Coimbatore
26	Hydraulic press	125 MT	Own Make
27	Welding Rectifier MRD.	600 AMPs	MEMCO, Mumbai
28	Welding Rotator	10 Tons	Mobile Equipment Pvt. Ltd.
29	Welding Rectifier MRD	600 AMPs	MEMCO, Mumbai
30	Pug cutting machine	Cut 100	-
31	Motorized Shell Rotator	5/ 10 MT	Own Make

## **Finance:**

The company has cash credit, book debt, bank guarantee and term loan facilities with Bank of Baroda, Khanderao Market Branch, Baroda as follows:

1. Cash Credit & Book Debt  
(Hypo stock cum book debt)
2. Bank Guarantee
3. Packing credit & foreign bill purchase

We have a financial arrangement to augment these facilities as and when required.

## Registration Certificates:

Sales Tax:	TIN LST 24191602085 Dtd. 01/07/2002 CST 24691602085 Dtd. 11/12/1974
Central Excise:	Reg. no. ABOPD2166KXM001, Range- IV, Div- Makarpura, Vadodara- II
Factory License no.:	074099 Dtd. 28/08/1989
Import Export Code no.:	3400000841 Dtd. 07/07/2000
EEPC no.:	RCMC:B:MFG:6327: 2005-06 Dtd. 03/08/2005

## Registration Details:

Sr.No	Agency	Reg. No.	Date	Registered For
1	ISO 9001: 2008, TUV Rheinland (India) Pvt. Ltd.	8510000112076	05/06/2012	Design & Manufacture of Pressure Vessels, Reactors, Heat Exchangers Distillation Columns for Chemicals, Fertilizer, Hydrocarbon Industries and Manufacture of Special Purpose Equipment for Atomic Projects.
2	District Industries Center, Vadodara. (SSI Registration under MSME)	DIC/VAD/SSI/5585	29/02/2008	Manufacturer of Chemical Plant Equipment and Machineries, Design and Mfg. of Pressure Vessels, Reactors, Heat Exchangers, Distillation Columns for Chemicals, Fertilizer, Hydrocarbon Industries and Manufacture of Special Purpose Equipment for Atomic Projects.
3	Factory Act Registration	348340-37262-D	28/04/1989	----
4	Department of Atomic Energy, Mumbai	DPS/REGN/31206/ENG/ CAP/1611, was valid till 31/10/2012. At present it is under renewal process.	----	Manufacturer of Jet Pumps, Fabrication jobs for Pressure Vessels, Reactors, Heat Exchangers, Distillation Columns, Storage Tanks and Special Purpose Machineries.
5	UHDE India Ltd., Mumbai	PR:VL:MAS:123	13/01/1999	(a) Pressure Vessels and Storage Tanks: 32 mm thk X 3.5 mtrs dia X 25 MT weight. (b) Heat Exchangers: 100 mm Tube Sheet thk X 2 mtrs dia X 25 MT weight MOC: Carbon and Stainless Steel.
6	Dun & Bradstreet Information Services India Pvt. Ltd.	65-074-8791	13/04/1999	D-U-N-S Number.

Sr.No	Agency	Reg. No.	Date	Registered For
7	<u>Various Clients</u>		Since 1980	Registered for manufacturing of equipment.
		146240	Since 1985	
	Reliance Industries	102678	Since 1975	
	GNFC	M 0054	Since 1986	
	GSFC	VE 01179	Since 1990	
	KRIBHCO	5224	Since 2010	
	GACL	101246	Since 2013	
	Farabi Petrochemicals	---	Since 2013	
	Linde	---		
	Larsen & Toubro			

## Achievements:

• Our moment of glory was when; our company was nominated by CNBC, TV18, in the category of “The International Trade Awards 2010-2011”. Our firm was selected amongst the top three organizations in engineering field for its export achievements.

• A Swiss company, M/s Dr. Muller AG, issued a letter of recommendation, in favor of Magirsha Industries, for procuring carbon steel rubber lined brine polishing filters for installation of their proprietary PP items, like filter elements, registers, etc. used in caustic soda plants. The filter vessels, call for very high degree of precision in fabrication, which can be achieved by using in-house developed welding jigs and measuring devices. The accuracy of fabrication was achieved upto + - 1 mm.

• We were the only Indian company to bag order for design and manufacturing of critical medium size carbon steel vessels for Farabi Petrochemicals Company, Kingdom of Saudi Arabia, for their LAB expansion project, on recommendation of UHDE.

## Product & Services:

### **Pressure Vessels:**

Manufacturing range as follows:

Code:	ASME, BS, IS, DIN
Type:	Plain, Jacketted, Limpet Coil, Internal Coil.
Supports:	Leg, Lug, Saddle.
Diameter:	3000 mm
Length:	13000 mm.
Thickness:	25 mm.
Weight:	28 MT.
Design Pressure:	75 Kg / cm <sup>2</sup> g & Full Vacuum
Design Temperature:	450 ° C
MOC:	Carbon Steel, Stainless Steel, Alloy Steel, Low Temperature Carbon Steel, Carbon Steel Rubber and Lead lined.



Some of our major pressure vessel orders, with design data are listed below:

Client	Order No	Qty	Desc.	Code	Pressure kg/cm <sup>2</sup> g	Temp °C	MOC	Size (dia x length x thk)	Weight mt	Inspection
Daelim, South Korea	020313- 1200- 202	15	Vessels	ASME, SECT VIII, DIV-1, IBR	FV-50	150- 300	A516 GR 70	574-3900 x 3000-11000 X 8-22	1.20 – 27.5	Lloyds, Jacob.

Client	Order No	Qty	Desc.	Code	Pressure kg/cm <sup>2</sup> g	Temp °C	MOC	Size (dia x length x thk)	Weight mt	Inspection
GSFC Amm. Project., Vadodara	1034	3	Inst. Air Receiver Separator	ASME, SECT VIII, DIV-1	23	-5 --+130	A516 GR 70	500-3000x 2000-5700x 8 - 16	0.6 - 13.0	Linde, TICB.
GSFC Caprola- ctam, Vadodara	M-044, 046, 018	11	Separator, Expand- ers, Seal Pot	ASME, SECT VIII, DIV-1	2-12	75 - 200	A240TP 316L, A2 40TP321, A24030 4L, A515 Gr. 60	500-2000 x 1500-2400 x 4 - 8	1.5 - 3.8	UHDE
IPCL, Dahej	Various	154	Tank Vessels with Agit- ators, Heaters	ASME, SECT VIII, DIV-1, IBR	FV - 66	-168 - +420	A516 GR 70 A240 TP 304 CSRL	200-4000 x 2500-7800 x 8-28	1.2-8.9	EIL, IBR, UHDE.
Farabi Petroch- emicals Co, Saudi Arabia	OK-3013B	13	Vessels	ASME, SECT VIII, DIV-1	FV - 34.5	185	A516 GR 70 A240 TP 304	400- 2600 x 600- 7800 x 3-22	1-16	UHDE
RIL PBR III, Hazira	7400152	11	Vessels & Reactors	ASME, SECT VIII, DIV-1, IBR	FV - 5	200	A516 GR 70	400- 2500 x 800- 6550 x 6- 16	0.5 - 7.3	IRS, TOYO.
Lanxess, Jhagadia	209578	1	Nitrogen Buffer Vessel	ASME, SECT VIII, DIV-1	FV - 10	200	A516 GR 70	3000 x 4700 x 16/22	10.8	UHDE
GSFC	3006/5129	4	Evapora- tor	ASME, SECT VIII, DIV-1	ATM / FV	100	IS 2062 Gr. A	2580 x 3010 x 8	3.70	GSFC
GSFC	A/4765	1	Oleum Tower	ASME, SECT VIII, DIV-1	1.05	235	IS 2062 Gr. A	2600 x 9601 x 10	26.65	BVIS

## Heat Exchangers:

Manufacturing range as follows:

Code: ASME, TEMA, EJMA.

Type: Fixed Tube Sheet, Floating Head, U-Tube, Kettle, Pipe to Pipe, with Expansion Joints and Bellows.

Supports: Lug, Saddle.

### Tubes

(Nos. x Length x OD): 1400 x 8500 mm x 50.8 mm

Tube Sheet: 1800 mm dia X 140 mm thk.

Design Pressure: 30 Kg/cm<sup>2</sup> g, Full Vacuum.

Design Temperature: 240 °C

Weight: 29 MT.



- MOC: Carbon Steel, Stainless Steel, Low Temperature Carbon Steel.
- Tube Materials: Carbon Steel, Stainless Steel, Copper, Cupro-Nickel, Brass.

Some of our major heat exchanger orders, with design data are listed below:

Client	Order No	Qty	Desc.	Code	Pressure		Tubesheet		Design		No Of Tubes	WT (mt)	Inspection
					kg/cm <sup>2</sup> g Shell	g Tube	MOC	THK (MM)	Temp Shell	Temp Tube			
RIL, Vadodara	MMB/7462935	1	Lean Water Reboiler	ASME/TEMA-C	11	5.3/FV	A182 F304	96	150	150	603	10.1	TUV
RIL, Nagothane	Nm3/7015098	1	Deethanizer Bottom Reboiler	ASME/TEMA-R	25	17.5	A350 LF2	80	-25/85	105	800	11.6	IRS
RIL, Vadodara	BM2/3480739	1	Condenser	ASME/TEMA-R	21	9	A516-70	58	100	50	610	14.7	IRS
RIL, Dahej	GMI/7071659	1	Wash Water Cooler	ASME/TEMA-R	30	23	A336 F 304L	115	80	65	1234	27.5	TUV/ Jacob
RIL, Nagothane	Nm3/7090199	1	Tube Bundle	ASME/TEMA-R	24.5	36.6	A266 CL2	136	223	80	1366	21.9	BVIS
RIL Butene Proj. Hazira	7255472	8	Cooler, Condenser-Type AES & AEM	ASME/TEMA-R	FV-24	FV-18.5	A266 CL2	70	-8/149	-5/164	102- 496	1.4 – 6.6	BVIS
GNFC, Bharuch	210689	1	Gas Cooler	IBR, ASME/TEMA-R	5.6	23	A182 F304	68	300	180	496	4	IBR, Lloyds
RIL, Vadodara	Bm2/7391765	1	Floating head tube bundle	ASME/TEMA-R	15	18	A266 CL2	65	150	130	536	4.3	IRS
RIL, Nagothane	MMV/7468956	1	Fractionator Reboiler	ASME/TEMA-R	6.5/FV	3.6	A266 CL2	45	240	130	382	4.05	TUV
GSFC, Methanol, Vadodara	5625	1	Conc. Col. Steam Reboiler (BKU)	ASME/TEMA-R	FV- 5	FV- 7	A266 CL2	55	160	205	143 U	4.5	PDIL
KRIBHCO, Hazira	29661	1	Chiller Unit for Air Compressor	ASME/TEMA-R	NA	8	NA	NA	NA	45	100 SPWD finned tubes	2.5	KRIBHCO
RIL, Vadodara	Bm2/7391765	1	HCL Heater H-301 – Double Tubesheet	ASME/TEMA-R	23.76/FV	10.95	A516-G70	Front – 45 Rear – 55	275	200	50	0.91	IRS

## Reactors:

Manufacturing range as follows:

Code:	ASME, BS, IS.
Type:	Plain, Jacketted, Limpet Coil, Internal Coil.
Supports:	Leg, Lug.
Diameter:	2000 mm.
Length:	3500 mm.
Thickness:	20 mm.
Weight:	15 MT.
Design Pressure:	10 Kg/cm <sup>2</sup> g, Full Vacuum.
Design Temperature:	200 ° C
Agitator:	Turbine, Propeller, Anchor type upto 30 HP, 300 RPM with Gland Packing or Mechanical Seal.
MOC:	Carbon Steel, Stainless Steel, Alloy Steel, Low Temperature Carbon Steel.



Some of our major reactor orders, with design data are listed below:

Client	Order No	Qty	Desc.	Code	Pressure kg/cm <sup>2</sup> g	Temp °C	MOC	Size (dia x length x thk)	Weight mt	Inspection
NCPL, TDI Project, Bharuch	60150	1	Int. reactor tank, 5 HP agitator.	API 650	1	150	SS 316 L	2300 x 2100 x 6	6.2	IBIC
Patcham, Sharjah	LCP- 026	1	4 KL dilut- ion tank, 20 HP agitator.	API 650	ATM	80	SS 304 L	1700 x 2100 x 6/8	3.1	PATCHAM
NCPL, TDI Project, Bharuch	601501	1	Wash water mixing tank with 5 HP agitator, internal coil.	API 650	ATM	120	SS 316 L	2300 x 2500 x 5/6	3.1	IBIC

## Distillation Column:

Manufacturing range as follows:

Code:	ASME, BS, IS.
Supports:	Skirt.
Diameter:	1500 mm.
Length:	25000 mm.
Thickness:	16 mm.
Weight:	20 MT.
Design Pressure:	10 Kg/cm <sup>2</sup> g, Full Vacuum.
Design Temperature:	100 ° C
MOC:	Carbon Steel, Stainless Steel



Some of our major distillation column orders, with design data are listed below:

Client	Order No	Qty	Desc.	Code	Pressure kg/cm <sup>2</sup> g	Temp °C	MOC	Size (dia x length x thk)	Weight mt	Inspection
IPCL, PBR I, Vadodara	3276516	1	Distillation Drying Tower	ASME Sec VIII Div. 1	8.5	316	A516- 70	980 x 2200 x 8/10/14	10.1	SGS

Client	Order No	Qty	Desc.	Code	Pressure kg/cm <sup>2</sup> g	Temp °C	MOC	Size (dia x length x thk)	Weight mt	Inspection
IPCL, VCM, Vadodara	3218105	1	Top portion HTC column	ASME Sec VIII Div. 1	3.6	160	A516- 70	2200 x 12250 x 10	11	SGS
GSFC, Caprola- ctam, Vadodara	5113	1	Stack	ASME Sec VIII Div. 1	0.1	300	IS 2062- B	600/ 1374 x 38000 x 6/20	14	GSFC
RIL, Vadodara	Bm2/ 7440044	1	Bottom Portion Drying Column	ASME Sec VIII Div. 1	1.75 / FV	195	A516- 70	1100 / 17700 / 12/ 10	11.2	IRS
RIL, Vadodara	Bm2/ 7468992	1	Top Portion Column of Absorber	ASME Sec VIII Div. 1	2.5	150	A516- 70	2100 / 8600 / 8	7.8	TUV

## Storage Tanks:

Manufacturing range as follows:

Code: API 650, BS, IS

Type: Conical Roof, Flat Bottom

Diameter: 4000 mm

Length: 5000 mm

Thickness: 12 mm

Weight: 10 MT.

Design Pressure: 0.5 Kg/cm<sup>2</sup> g/ Partial vacuum.

Design Temperature: 100 °C

MOC: Carbon Steel, Stainless Steel, Carbon Steel with Rubber lining.



Some of our major storage tank orders, with design data are listed below:

Client	Order No	Qty	Desc.	Code	Pressure kg/cm <sup>2</sup> g	Temp °C	MOC	Size (dia x length x thk)	Weight mt	Inspection
HWP- BARC, Hazira	77905	1	Heavy water storage tank	ASME, Sect VIII, DIV-1	3	100	SS 304 L	2600 x 5200 x 10	4.1	BARC
NCPL, TDI Project, Bharuch	60150	1	85% AN Melt tank	API 650	ATM	110	SS 304 L	2700 x 3000 x 6	3.2	IBIC
GACL, Dahej	510/ 166	1	98% H <sub>2</sub> SO <sub>4</sub> Tank	API 650	ATM	60	IS 2062- B	4000 x 4500 x 10/12	7.5	GACL
NCPL, TDI Project, Bharuch	10046	1	Diesel Oil tank	API 650	0.1	50	IS 2062- B	3000 x 3600 x 6/8	2.9	IBIC

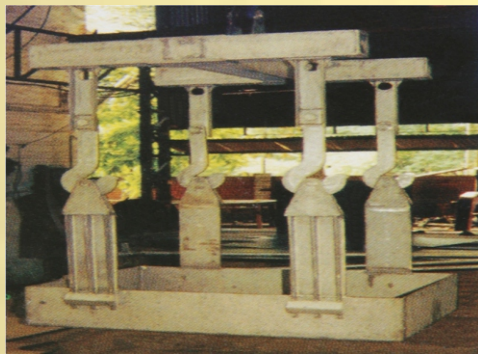
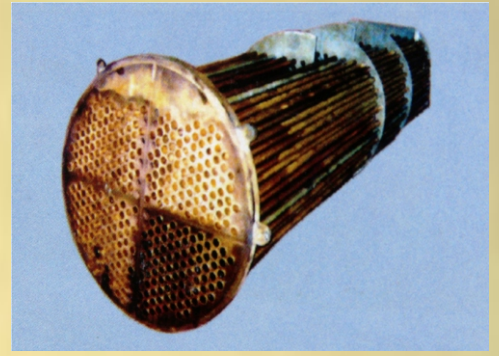
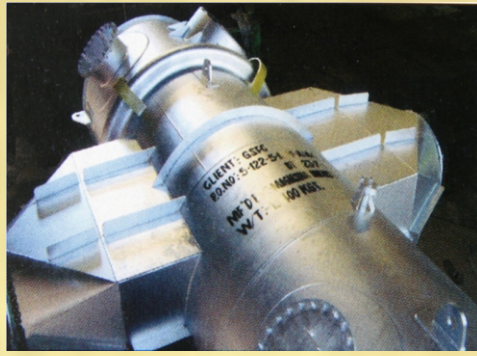
## Special Purpose Machinery:

We have developed and manufactured various types of machineries and gadgets listed below:



Sr.No	Client	Description
1	BARC, Mumbai.	<ul style="list-style-type: none"><li>·Shielding plugs.</li><li>·Fuel handling tongs.</li><li>·Gamma chambers.</li><li>·Spent fuel storage trays.</li><li>·Lead shielded shipping cask.</li><li>·Fume hoods.</li></ul>
2	TISCO, Jamshedpur.	<ul style="list-style-type: none"><li>·ANFO mobile charging explosive charging unit.</li></ul>
3	GSFC, Vadodara.	<ul style="list-style-type: none"><li>·Catalyst loading device.</li></ul>
4	Heavy Water Project, Manuguru.	<ul style="list-style-type: none"><li>·Electrolytic cell (Inconel 600, Ni 200/ 201, SS 304).</li></ul>
5	IPCL, DSAF Project, Vadodara.	<ul style="list-style-type: none"><li>·Tow quality audit station.</li><li>·Spinneret stuck removal machine.</li><li>·High pressure spinneret cleaning booth.</li></ul>

Apart from this, we can also design and develop, any Special Purpose Machinery, involving electrical, pneumatic, hydraulic and mechanical system.



## CONTACT INFO

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