

# **KWALITY PROCESS EQUIPMENTS PVT. LTD.**

FABRICATION OF STAINLESS STEEL PRESSURE VESSELS

The background of the entire page is a blue-tinted photograph of an industrial facility, likely a refinery or chemical plant, featuring tall distillation columns, complex piping, and storage tanks. In the center, the letters 'KEC' are rendered in a large, bold, blue 3D font with a gold-colored outline. A bright white starburst with radiating lines is positioned directly above the 'E'. Below the 'KEC' text, there are several concentric, wavy lines in shades of blue, resembling ripples on water.

# **KEC**

- Reactor
- Column
- Heat exchanger / Condenser
- Receiver & Storage Tanks
- Continuous Nitriton System
- High Speed Mixer / Disperser
- Twin Shaft Disperser
- Self Stiffened Storage Tanks



## MESSAGE FROM THE DIRECTOR'S DESK



The KEC team strives to achieve the goal of making us a company that can deliver innovative solutions for process equipment's. Our main aim is to provide quality Equipments, in time delivery at fullest customer satisfaction.

We, at KEC, have been following the policy of "Customer loyalty is our goal". We understand that customers are the primary reason of our existence. We manufacture our products in such a way that they are the best in quality and price, with an emphasis on safety standards.

Bringing new definition to innovation is our imperative, working with sheer integrity is our strength and being accountable is in our culture.

As we climb the ladder of success from inception, our entire team continues to work diligently to ensure reliable solutions and services to our clients.

For the coming year we at KEC pledge to build a long and trusted relationship while continuing to deliver the best in business. Your support has been key to our success with repetitive order / opportunities to serve your esteemed organisation.

## ABOUT US

"KEC" founded by technocrat Mr. Praful D. Makwana in the millennium year 2000. His academic background and his practical experience in the field of Stainless Steel Fabrication & manufacturing quality products. "KEC" is a market leader in the field of manufacturing of pressure vessels. Mr. Makwana is supported by a team of result oriented Qualified Techno Commercial staff having spirit of team work, enthusiasm and a passion for excellence to deliver out standing performance in the field of manufacturing GMP & Non GMP process equipment's for chemical plant & paint industries.

"KEC" has established well equipped manufacturing facilities at Vasai and Palghar District of Maharashtra State, having a total 3,500 Sq. Mtrs. of Shop floor area Fully Cemented concrete Floor having 40Ft working height with 20 tons EOT Cranes. "KEC" Specializes in Stainless Steel Fabrication of Pressure Vessels including Reactors, Columns, Condensers, Heat Exchangers and Storage Tanks are manufactured in accordance with international standards; ASME, TEMA, DIN AND BS.

KEC has expertise for Continious Nitriton System ( Set of 12 Equipments with 7 Nos. Agitated Vessel & 5 Nos. of Separation Vessels ) which are in operation for 24x7 , Plant supplied from 10 TPD to 100 TPD capacity.

KEC has also expertise for Special Equipments for Mixing of Highly Viscous Material i.e Twin Shaft Dispensor One Vessel consist of Two Agitator for Slow Speed Scrapping & High Speed for Cutting & Grinding - High Speed Shaft with Up & Down arrangement with Hydraulic system.

"KEC" have fabricated and delivered equipment's under all the major Third Party Inspection Agencies like BVIS, TUV, SGS, Chempro Mott Macdonald, Joshi & Associates., etc.....

"KEC" executed repeated Export order for USA based client with 100% repeat orders for all the customers



## CLIENTELE





**Vasai Unit**



**2 Mtrs. OD Tuning**



**HMT-63 Radial Drill**



**Palghar Unit x 40 ft working height x 20 ton - Dished End Upto 4 Mtrx 25 mm Thk.**



## LIST OF MACHINERIES

DESCRIPTION	CAP.	PALGHAR	VASAI
Plot Area	Sq. Feet	39500	26000
Built up Area	Sq. Feet	35000	21500
Diesel Power Generator	KVA	80 KVA	80 KVA
Electrically Operated Crane (EoT)	Tons	20 + 20	10 + 5
Clear Working height-under Hook	Feet	40	21.5
Air Plasma Cutting Machine	MM Thk	50mm	60mm
Plate Bending (Rolling Machine)	Width x thk	2500 x 25	2000 x 16
Pipe Bending Machine	Dia	90 OD	90 OD
Hydraulic press for Dished End Max size Dish ID X Thickness	Ton Mtrs x MM	300 4.0 X 25	200 2.5 X 16
TIG-ARGON Welding Machine	400 Amps	17 Nos	17 Nos
Radial Arm Drilling Machine	Dia	HMT 62	HMT 63
lathe Machine LP200	Upto 6mts	8 Nos.	12 Nos.
Max 2000 mm dia & 6000 mm Long			
Air Compressor	Screw	7.5 HP	7.5 HP



## REACTORS & COLUMN (GMP/ NON GMP)



1.25 KL GMP Reactor

We Manufacture Reaction Vessels using various grades of stainless steel Ss304, Ss316 & 904L. They are mainly used in chemical and Pharmaceutical Industries. Our Manufacturing capacity ranges from 500 Ltrs. to 40 KL.

We have manufactured and supplied Hydrogenation of 12.5 KL capacity withstanding Hydro Test pressure @ 40 Kg/Sq. Cm having 28 mm of Shell thickness & 30 mm Dish thickness with 100% Radiography.

**In house Agitator manufacturing facility.**



12 KL x DIMPLE Jacketed Reactor



20 KL EO Reactor



Inner Coils - 100 NB x Sch. 40 x Seamless



25 KL x 904 L Reactor



900 ID x 21.5 Mtrs. Column



2 Mtrs Dia x 26 Mtrs. Column





## HEAT EXCHANGERS & CONDENSERS

We Manufacture Fixed Shell & Tube type Heat Exchangers, Floating Heat Exchangers, Fully double Expanded Heat Exchangers and Double Tube Sheet Type Heat Exchangers. These Heat Exchangers are used for various applications in industries, namely :

Fertilizers, Chemicals, Petrochemicals & other Allied industries. Capacity of Heat Exchangers ranges from 01 Sq. Mtr. to 594 Sq. of Heat Transfer Area.



**224 Sq. Mtrs. Double Expansion Below Condenser**



**Condenser x Reboiler**



**Condenser x Vent Condenser**



**30 Sq. Mtrs. Condenser With Expansion**



**35 Sq. Mtrs. Condenser With Expansion**



**26 Sq. Mtrs. Heat Exchanger**



**215 Sq. Mtrs. Heat Exchanger**



# RECEIVER & SELF STIFFENED STORAGE TANKS



62 KL Limpeted Tank

Available in various International Specifications & according to customer's requirements, We offer stainless steel tank upto 1,25,000 Ltrs. Capacity.

We have Manufactured corrugated Self Stiffened Storage Tank capacity of 50 KL to 95 KL from 4mm thick material.

Receiver from 1 KI Capacity to Storage Tanks upto 125 KL capacity

MOC : Stainless Steel 304 & 316L

Duplex Steel

Hi Nickle Alloys SS 904 L

Aluminium



72 KL Storage Tank



65 KL Limpeted Self Stiffened Tank



50 KL Self Stiffened



80 KL Storage Tank



35 KL GMP Storage Tank



57.5 KL Horizontal Tank

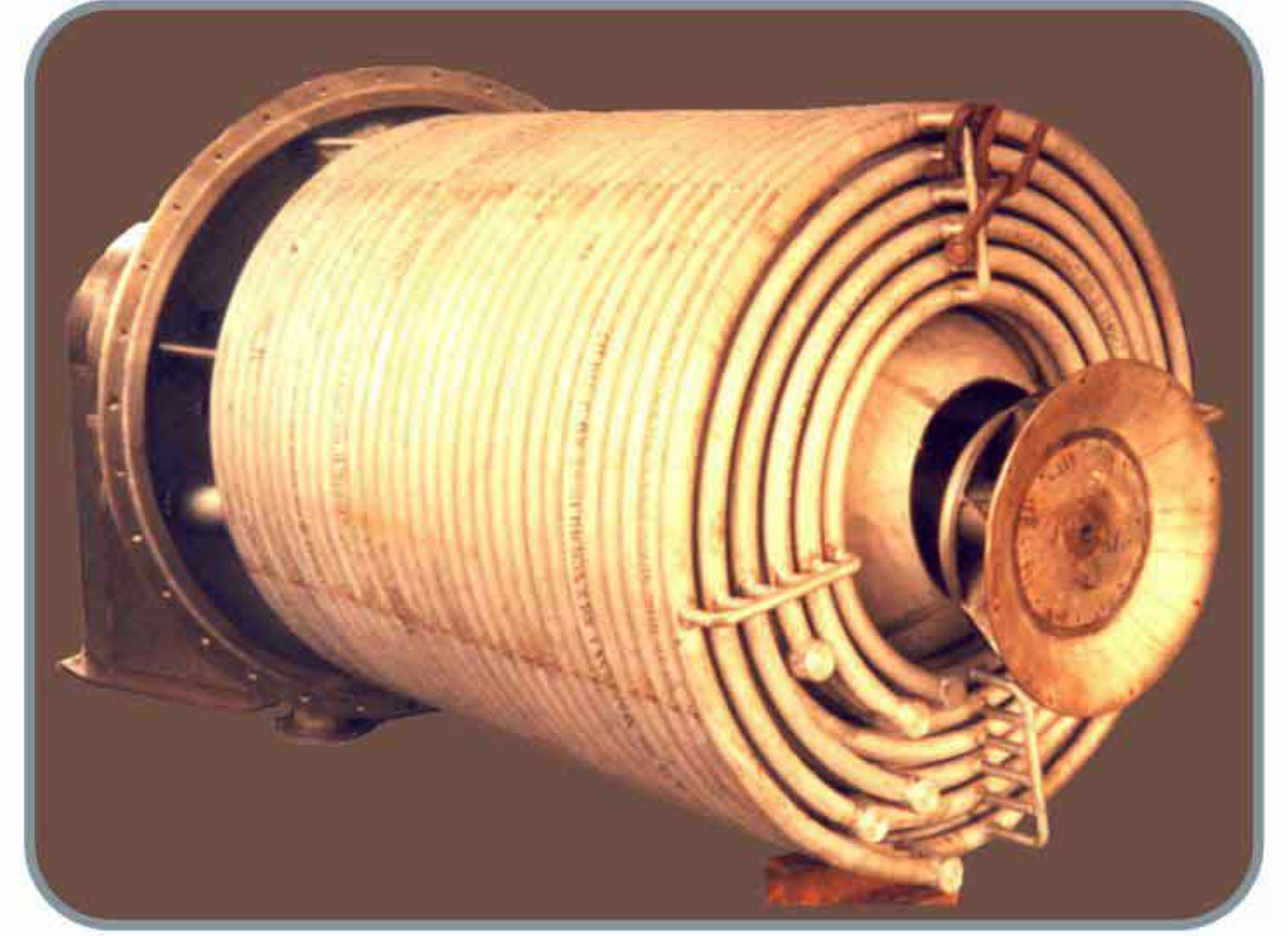


15 KL Aluminium Tank



## Continuous Nitrition System

- Continuous Nitrition system operate 24x7 / 365 days
- System consist of 12 Nos. of Equipments
- Equipments are Interconnected & Wall Mounted construction
- 7 Nos are Agitated vessels for Reaction & Washing cycle
- 5 Nos. are Separation Vessels



## Mixing Machines for Highly Viscous Material



1.5KL x 12 Nos. Premixer



1.5KL & 3 KL High Speed Mixer



3.0 KL x 2 Nos. Premixer



5 KL Twin Shaft Dispenser



10 KL Twin Shaft Dispenser





## LETTER OF APPRECIATION



**DEEPAK NITRITE LIMITED**

DNL/ PBT/ Dec 2012/01  
26 December 2012

To,

**Mr. Praful Makwana**  
Managing Director  
Kwaliti Process Equipment Pvt Ltd  
Plot no. 8, Laxmi Narayan Ind Estate,  
Nandore Road, Palghar East,  
Thane - 401 404

**Subject- Letter of Appreciation**

Dear Praful,

Deepak Nitrite Ltd., awarded your company a contract for supplying all Reactors and Vessels (in MOC -SS316L and SS304) valued at Rs. 250 Lac required in the new Greenfield expansion project at Dahej.

All the equipments and vessels were inspected under strict supervision of TUV - Nord as per the approved Quality Assurance Plan. These equipments were delivered at site within the well agreed time schedule.

On behalf of Deepak Nitrite Ltd., I wish to put on record our appreciation for the high quality of manufacturing as well as adherence to the agreed timelines demonstrated in executing this important job.

We express our Appreciation and wish you success in all your future endeavours.

Best regards,

For **Deepak Nitrite Limited**

*P. B. Talegaon*  
**Pramod Talegaon**  
Vice President - Technology

Corporate Office: Aadiya - I, National Highway No. 8, Chhani Road, Vadodra - 390 024.  
Tel.: +91 - 265 - 2762200; 3860292 Fax: +91 - 265 - 2343500 Website: www.deepaknitrite.com  
Regd. Office: 91/5, Kunj Society, Ahapuri, Vadodra - 390 007. Tel.: +91 - 265 - 233 4481/82 Fax: +91 - 265 - 233 0994



**GHARDA CHEMICALS LIMITED**

PRODUCING THROUGH INNOVATIVE PRODUCTS & SERVICES

Factory & R & D Centre : B - 27/29, MIDC, Dombivli (E) - 421 203, Dist. Thane, Maharashtra State (INDIA)  
Tel.: (0251) 2803380-6, 2434835-8, 2440001-4 Fax: (0251) 2430581 Gram: GHARDACHEM

### LETTER OF APPRECIATION

This is to certify that **M/s. KWALITY PROCESS EQUIPMENTS Pvt. Ltd., Palghar**, has been our regular fabricator for Reactors, Storage Tanks and Heat Exchangers since August 2012. They have manufactured & Supplied number of Reactors, Heat Exchangers & Storage Tanks ranging upto max. 19.00 KL capacity Reactors. They have manufactured these equipments with Stagewise inspection from our inspection team as per our QAP. Quality of these manufactured equipments were satisfactory and Delivery were well with in the Time Period as per GCL's Requirement.

We appreciate the Efforts taken by Mr. Makwana for Quality Fabrication workmanship & Excellent Time management so as to meet Delivery Schedule.

We wish him all the success in Future assignments

FOR GHARDA CHEMICALS LTD.

*(Signature)*  
(Sd/- K. K. Khar)  
22/01/2014  


Regd. Office : Gharda House, 48 Hill Road, Bandra (W), Mumbai - 400 050 (INDIA)  
Tel.: 33065600 Fax: 91 - 022 - 26404224 website: www.gharda.com

**KRISHNA ANTIOXIDANTS PVT. LTD.**

Corporate Office: 107/108, Rahwa Phary 108 Link Road, Andher (W), Mumbai - 400053, India  
T : +91 (22) 4094100 F : +91 (22) 4094101 E: info@crystal.co.in  
Registered Office: Laxmi Narayan Industrial Estate, Plot No. 8, Laxmi Narayan Industrial Estate, Nandore Road, Opp. to Vinod Cookware, Palghar (East), Dist.: Thane - 401404  
CIN: U59999MH130007C226459 www.crystal.co.in

Date: 22/05/2017

Kwaliti Process Equipments Pvt. Limited,  
Plot No. 8, Laxmi Narayan Industrial Estate,  
Nandore Road, Opp. to Vinod Cookware,  
Palghar (East), Dist.: Thane - 401404

Kind Attention: **Shri Prafulbhai Makwana (MD)**

Dear Sir,

Sub: **Letter of Appreciation for your innovative product**

We are delighted to inform you that we are extremely happy with your company's development of corrugated storage tanks having capacity of 50 KL to 95 KL and fabrication of various size of reactors and heat exchangers with very precise quality measures. It has been five years since these tanks, reactors and heat exchangers were installed at our various plant locations. The durability and stability of tanks found excellent. Besides, reactors and heat exchangers are running without any major maintenance.

Your work culture and professional ethics represent some of the best businesses in the industry. On behalf of my company, I would like to acknowledge and appreciate your services for last five years. We consider your services as an added asset to our company and we wish to continue this association in the long run.

Your prompt problem solving solutions, in time delivery of goods, analytical skill, out of the box thinking and result oriented services have been of great help for our company.

Thanking You,

Your faithfully,  
For Krishna Antioxidants Pvt. Limited  
*(Signature)*  
**B. ASONI**  
(Sr. VP - Projects & Sourcing)

bsi

D&S  
DUNS® Number (91-851-0391)

**CRISTOL®**  
Better Chemistry. Better Value

# KWALITY PROCESS EQUIPMENTS PVT. LTD.



AN ISO 9001 : 2015  
CERTIFIED COMPANY

## Vasai Unit

Plot No. 198, Sector No.1, Gauraiпада,  
Vasai Taluka Industrial Estate,  
Vasai (East) Dist. Palghar - 401 208.  
Maharashtra. INDIA.

Phone No. : +91 250 2453438/ 6417968

E-mail : [sales@chemicalequipments.com](mailto:sales@chemicalequipments.com)  
[pdmakwana@chemicalequipments.com](mailto:pdmakwana@chemicalequipments.com)

## Palghar Unit

Plot No.8, Laxmi Narayan Industrial Estate,  
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: +91 8007 991793

Website: [www.chemicalequipments.com](http://www.chemicalequipments.com) (Please see Virtual 360° tour of our factory premises)