



# ETERNITIVE

## A COMPLETE SOLUTION IN ENGINEERING

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**DESIGN, MANUFACTURING & SERVICING  
OF ALL TYPES OF HEAT EXCHANGERS  
ALL BRAND PHE SPARES**

**CIP SYSTEM | ZLD PLANTS  
CLEAR WATER SOLUTION | BULK MILK COOLERS**

# ABOUT US

Eternitive® is ISO 9001:2015 certified company started in 2018 with an objective to provide on site heat exchanger servicing & spares parts support in the heat exchanger category. Platex is now known as one of the top heat exchanger manufacturers in India owing to its expertise in after-sales market. We are registered under MSME initiatives of the Indian Government to promote the Indian manufacturers.

Eternitive® India offers a complete spectrum of manufacturing of all types of heat exchangers along with onsite servicing and spare for all types & brands. One manufacturing unit and 3 service centres are available to cater all the requirement of heat exchangers. Platex® has a facility where all types of heat exchangers are manufactured under one roof.

We have more than 250 clients in National & International market, and with the expertise, we deliver 24/7, 365 days support in on site refurbishment of any type of heat transfer equipment.

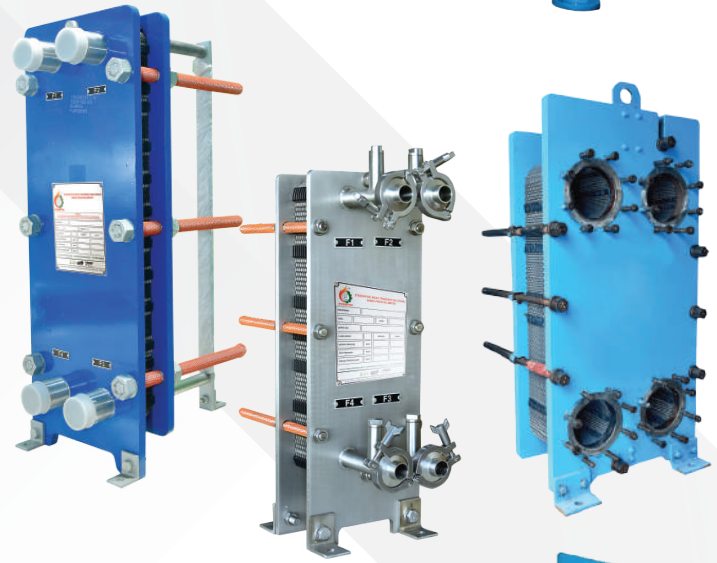
Eternitive® produce all kinds of heat exchangers, which includes shell & tube, plate & frame, finned tube, spiral, brazed & Semi-welded. Portable online Clean In Place System (CIP), BMC, Effluent treatment system, hot water generation system, evaporators, condensers and unique water solution are some of the other products manufactured by Platex® India. Platex® carries an Inventory for all brands PHE spares, which can save a good amount of equipment down-time and delivers a quick response to the client's need.

Eternitive® infrastructure today boasts up a state - of - art manufacturing facility in Wadki, Pune and a strong network across all India to meet ever-growing needs of the industry in the domestic market. Platex® is working on existing and future processing techniques for HE solutions. The findings enable us to offer innovative products and solutions enhancing competitiveness in terms of new product development and processing techniques.

# OFFERINGS

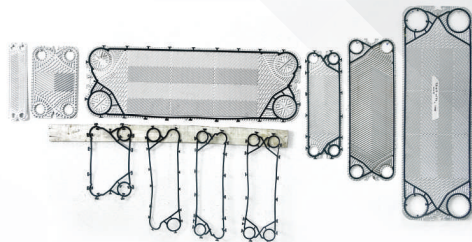
## PRODUCTS

- Bulk Milk Cooler
- Plate Heat Exchanger
- Shell & Tube Heat Exchanger
- Effluent Treatment Plant (SS)
- Hot Water Generation System
- Portable Clean In Place System)
- Air Fins Heat Exchanger (Radiators)
- Clean Water without Chemical (Patented Solutions)



## SERVICES

- All Brand PHE Spares
- HeX Servicing and Refurbishment
- Condenser Tube Replacement
- Heat Exchanger Health Check
- HeX Annual Maintenance Contract





# NEW REVOLUTIONARY PLATE HEAT EXCHANGERS BY PLATEX®

(Industrial & Food Grade)

Our Eternitive® standard plate heat exchangers are the ideal choice for a wide range of applications across numerous market segments. Innovative technologies and smart design make our standard plate heat exchangers a stellar investment and the go-to choice for standard duties.

We have one to one solutions for any brand of heat exchangers in the world and we customize each heat exchanger to meet your exact requirements. The versatile design and high thermal efficiency make them the perfect solution for a wide range of applications.



## SANITARY PLATE HEAT EXCHANGERS

Our Eternitive® sanitary plate heat exchangers uses FDA complaint compliant materials and are designed to use in food, dairy, and beverage applications as well as other applications with strict sanitary requirements. We have the in-depth process knowledge and extensive experience needed to engineer hygienic, high - performance solutions.



## TECHNICAL SPECIFICATIONS



### APPLICATIONS

- ⚙ HVAC industry
- ⚙ Heavy industry
- ⚙ Mining industry
- ⚙ Sugar industry
- ⚙ Biogas industry
- ⚙ Chemical industry
- ⚙ Pulp and paper industry
- ⚙ Petrochemical industry
- ⚙ Marine/offshore industry
- ⚙ Dairy/food/beverage industry
- ⚙ Industries with Sanitary requirements

Frames designed according to FEA and PED 2014/68/EU (EN13445) and ASME sec VIII, Div.1 construction standards

Plate materials: AISI 304/316, titanium, SMO, Hastelloy\*

Connections from DN25 to DN600 (1" to 24")

Working temperatures from -20 °C to 180 °C

Gasket materials: EPDM-HT, NBR-HT, Viton\*

Flow rates up to 7,200 m<sup>3</sup>/h (31,700 gpm)

Other materials are available upon request

Working pressure up to 35 bar (500 psi)

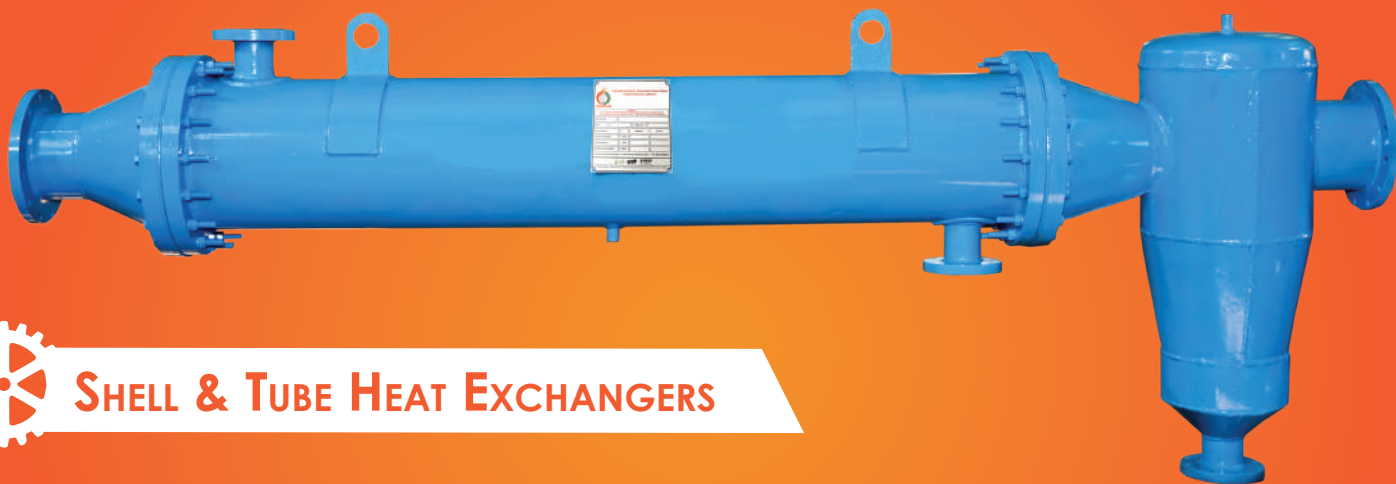
Plate lengths up to 5.5 m (18 ft)



## PLATE HEAT EXCHANGERS FEATURES AND BENEFITS

- ❁ Experience the benefit of an individually customized solution that perfectly matches your requirements and lowers your energy consumption.
- ❁ High performance and a low pressure drop eliminate unnecessary burdens on your system and optimize overall system performance.
- ❁ We design single - pass solutions when possible, as they are the preferred choice for almost all duties. With all connections on the head you do not need to disconnect the heat exchanger from the piping to perform inspection, cleaning, or service.
- ❁ The design results in a compact solution with a small footprint, simple installation, and easy access for maintenance.
- ❁ Heat exchanger solutions that adhere to the strict hygienic demands of the industries and complies with FDA material standards.
- ❁ Plate technology made to provide the highest output product quality.
- ❁ We ensure gentle media treatment during processing with precise flow control, perfect temperature profiles, and the optimal residence time for all applications.
- ❁ Cladded or stainless-steel frames designed to be easily accessible for quick and trouble-free inspection, maintenance, or cleaning—including cleaning in place (CIP).
- ❁ Enjoy huge savings on your power consumption with our regenerative pasteurizers that can recycle up to 95% of the energy.





## SHELL & TUBE HEAT EXCHANGERS

Eternitive® is one of most-admired name in supply of home grown heat exchangers in the process industry. Our heat exchangers are extensively used in many industries such as chemical, steel, fertilizer, petrochemical, pharmaceuticals, agro-chemicals, power, cement, evaporation and effluent treatment as well as general manufacturing industries.

### WHY CHOOSE ETERNITIVE® HEAT EXCHANGERS

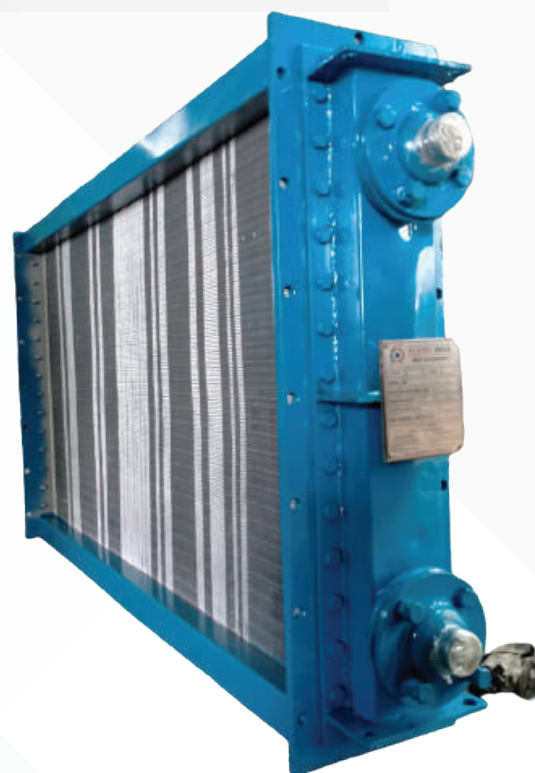
- ⚙ Enhanced technology
- ⚙ Wide range of fin shapes, tubes, headers and materials
- ⚙ In house design and manufacturing technologies
- ⚙ Complete service packages
- ⚙ Fast delivery
- ⚙ Long life cycle



## FINNED TUBE HEAT EXCHANGERS

Finned tube bundles with aluminum fins are considerably more lighter, are insensitive to soiling and easy to clean. On the other hand, systems using galvanized steel offer a very long service life of up to 30 years, are extremely resistant to mechanical influences such as hailstorms and provide optimum corrosion protection as aluminum.

Air coolers are used in fundamentally different and sometimes extremely difficult ambient conditions. This refers to both production processes and climate-related conditions.

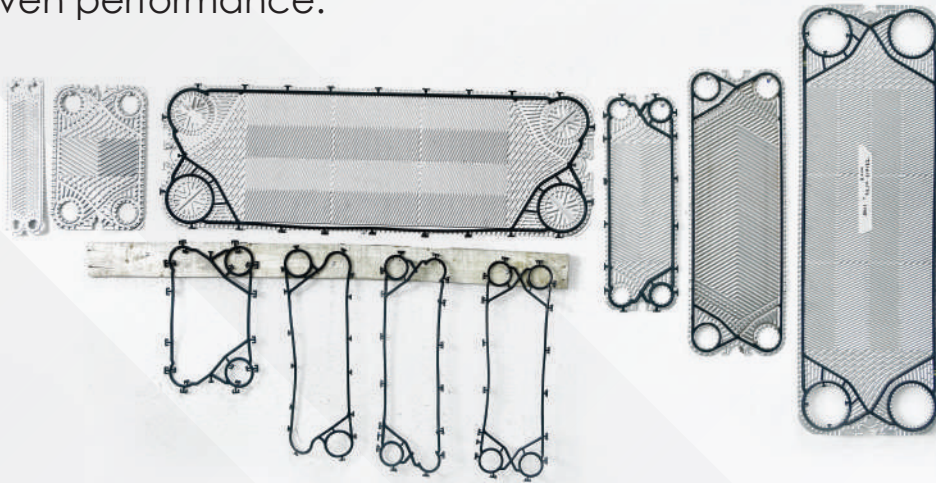




## PHE SPARES

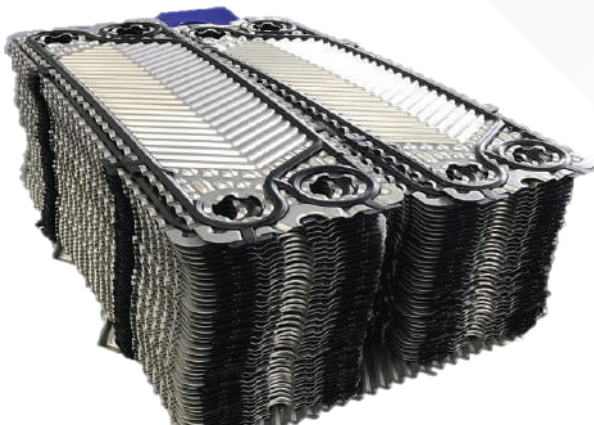
Eternitive® maintains an extensive inventory of spare parts of PHE for most of the reputed brands, that supports less down time and immediate delivery. Our parts inventory system contains specific information such as technical details and availability for more than 150,000 parts, and we have more than 10,000 unique items in stock. Most importantly we provide warranties on our spares to give confidence to customer about the quality of the product.

Unmatched quality - Designed for durability, reliability and productivity, our parts deliver outstanding performance. Manufactured to precise specifications interchangeable gaskets and plates to replace old OEM parts with competitive price and proven performance.



A smart choice Boost productivity and maximize uptime with quality spare parts from Eternitive®. With easy access to a broad range of long-lasting high-quality parts. Get your PHE Spares from Eternitive® and rest assured for the performance of the HE. Get any brand PHE Spares under one umbrella and we will take care of site installation support with our experts.

We carry inventory of Alfa Laval, Tranter, Kelvion (Gea), Sondex (Danfoss), IDMC, Funke (HRS), Tetrapack, and other major OEM PHE Spares like Heat Transfer Plates & Gaskets.





## ON SITE SERVICING

A poorly functioning heat exchanger may affect safety, product quality and energy costs. Failure may lead to costly downtime and major losses in production. By regular and proactive maintenance of your heat exchanger performance is preserved and operations kept trouble - free and predictable.

We have the expertise to help you whether you experience a problem today, wish to prevent future issues or want to solve the problem yourself with our onsite troubleshooting service.

We understand how important it is to get your process back on track quickly.

Our experienced technicians know what to look for and have the latest and most innovative technology at their disposal to identify leaks, find inefficiencies and bring your plate heat exchanger back up to peak performance. We know about pressure drops and loss of flow. Our team will prescribe the best solutions, refurbish or fix your plate heat exchanger.

Whether it's emergency repair scheduled maintenance or reconfiguring plates, we can have someone onsite at your location quickly. No matter your industry, count on Platex® for optimum plate heat exchanger service.







## PORTABLE CLEAN IN PLACE SYSTEM

Quick, effective cleaning

Eternitive® fully automatic portable CIP systems connect directly to your heat exchanger connections and circulate a mixture of heated non-toxic cleaning agents that effectively remove scale, product deposits and bio-fouling. This leaves process surfaces clean and restores the performance of your equipment.

**Process Liquid:** Chemical cleaning agent

**Power Supply:** 3 Phase / 380-415VAC/ 50Hz

Application Cleaning in place of Heat Exchangers Tank & Trolleys

**Material of Construction:** AISI 304

**Tank Capacity:** 100, 200, 400, 600, 800, 1000 Itrs

**Pump Type:** Centrifugal

**Capacity:** 6m<sup>3</sup>/hr to 50m<sup>3</sup>/hr

Motor KW 2 to 5.5 | Wetted Parts Material ss316



## BULK MILK COOLER

- ❁ Raw milk producers have a choice of either open (from 150 to 3000 liters) or closed (from 1000 to 10000 liters) tanks.
- ❁ The cost can vary considerably, depending on manufacturing norms and whether a new or second hand tank is purchased.
- ❁ Milk silos (10,000 liters and plus) are suitable for the very large producer.
- ❁ Silos are designed to be installed outside and adjacent to the dairy, all controls and the milk outlet pipe being situated in the dairy.





## SMALL SCALE EFFLUENT TREATMENT PLANT

(SINGLE EFFECT EVAPORATION SYSTEM)

Coil Type Evaporation System for Industrial Effluent Water Industry, Pharma, API, Chemical, Plastic & Rubber, Dairy, Food Processing.

Maximum TDS can be handle upto 30,000 PPM  
Movable Skid based system  
Crystal clear condensate with less than 250 ppm TDS.  
PID based field mounted control panel..  
Single operator can handle system.





## SPIRAL HEAT EXCHANGERS

- 25m<sup>2</sup> SS 316 Edible Oil
- 2m<sup>2</sup> - SS 316L Condensers
- 115m<sup>2</sup> SS 304 - Steel Industry
- 4m<sup>2</sup> SS 304 - Skid Based Unit
- 4m<sup>2</sup> SS 316 - Product
- 2m<sup>2</sup> SS 316 - Condensor + Sub - Cooler
- 6m<sup>2</sup> SS 316L - Condensers
- 2m<sup>2</sup> / 6m<sup>2</sup> SS 316 - Skid Units
- 10m<sup>2</sup> SS 316 - Sludge Heating





# ACCOMPLISHMENTS

HEAT EXCHANGER MANUFACTURERS

**Industry Outlook**

THEINDUSTRYOUTLOOK.COM

IS PROUD TO PRESENT

**PLATEX INDIA**

AS ONE OF THE

**TOP 10**

**HEAT EXCHANGER**

**MANUFACTURERS**

2022

in acknowledgement of its unwavering focus and dedication to achieve excellence in quality and delivery in this field.

**PLATEX INDIA**  
HEAT EXCHANGER MANUFACTURING, SERVICE & SPARES UNDER ONE UMBRELLA

**“As the small size industries are booming in India this innovation is going to prove itself as an essential need of the time to come.”**

The global heat exchanger market reached value of US\$16.2 Billion in 2021 and is expected to reach to US\$24.4 Billion by end of 2027, showing the CAGR of 6% during the 2022-27. The growth can be attributed to the rising demand for advanced thermal engineering solutions across several industries such as oil, gas, petrochemicals, food, beverages, pharmaceuticals, chemicals, etc. However, in India, despite the abundance of multiple multinational manufacturers, the availability of efficient after sales services is scarce. Lack of domestic spare parts manufacturing makes the entire industry heavily rely on imports. This is where Platemex India came to offer a comprehensive spectrum of onsite servicing solutions for heat exchangers while putting forward one manufacturing plant and three service centres to build and repair all kinds of heat exchangers.

Started in 2018, Pune based company came up with a complete range of after sales support for every brand of heat exchangers; the objective is to eradicate the unavailability of immediate site support. Platemex India is an ISO 9001:2015 certified company who entered the league of top heat exchanger manufacturers in a very short span. The

domination of multi-nationals in Indian industry with extensive lead time, expensive spares & minimal after sales support, Platemex became the prime mover owing to its expertise in after-sales.

Niranjan Mehta, Director of Platemex India adds, "The top-notch manufacturers are reluctant on price, delivery, and after sales care. Overlooking the MSME and Start-up India initiatives of the Indian Government to support the Indian manufacturers, the Indian users are more prone to the brand names. The end-users should support the local manufacturers and help them publicize their bringing. The advantages of encouraging home-grown companies are enormous. At Platemex, we emphasize on government initiatives like 'Make in India' and 'Vocal for Local'."

**Array of Offerings**  
Platemex offers a complete range of manufacturing of heat exchangers along with onsite servicing and spares for every brand PHE's, Unlike other manufacturers who deal in a specific type, Platemex has set up a facility to manufacture all types of heat exchangers such as shell & tube, plate & frame, finned tube, spiral and Semi-efficient after sales services to users. With expertise in the field, Platemex delivers 24x7, 365 days service support along with authentic spares at a reasonable price, in national and international markets.

**Future Prospects**  
Upon their future endeavours Mehta adds, "We are expecting the Indian market to touch US\$800 million to US\$850 million by 2026. Likewise, we are expecting the same or reasonable growth in our company. Currently we have capacity to manufacture 90% of the parts in our unit, however, we are planning to upgrade our facility to install all sort of machineries essential for manufacturing of heat exchanger along with fully equipped service centres at prominent locations and service vans in near future. As the small size industries are booming in India this innovation is going to prove itself as an essential need of the time to come."

PLEDGE

under MSME Sustainable (ZED) Certification Scheme

*We undertake to conform to the values of Zero Defect Zero Effect in our enterprise and ensure that our processes shall be environmentally sound and socially responsible with safe and high quality products.*

*We will give back, in every way we can, to our people our community and to our planet.*

**PLATEX INDIA**

REGD. OFFICE

Plot No. C-18B, Building - Runel Commercial CHS, Road/Street - Handewadi Road, Wagle/Team - Handewadi, Pune - 411028, PUNE, MAHARASHTRA, INDIA

REGD. REGISTERED NUMBER

August 28, 2022

**Apraenge ZED!**

JSW Cement Ltd  
P.O. Valsarwar, V/S No. Toranagar, Dist. Solapur, 431075, Maharashtra, India  
Phone: 020-244001  
Fax: 020-241009  
Website: www.jsw.in  
CIN: L28990MH2003PLC030088

Date: 21.10.2022

**TO WHOMSOEVER IT MAY CONCERN**

We would like to place on record that the Clean Water without chemicals supplied by M/s Platemex India, Pune is performing satisfactorily in our plant.

CWWC of 100 mm I.D. pipes were installed in 2020 and 2021, for the water supply lines, all of our ROLLER Presses 1 & 2, Gear Box Heat exchangers, VIBRA and COMPRESSOR Heat Exchanger for avoiding the scale formation in the Plates of PHE, Tubes of Shell & Tube Heat Exchanger.

After the installation of CWWC, we have observed that there is no scale formation and the Heat Exchangers performance has improved. The maintenance expenditure of this ISS is Nil, as there are no moving parts. Power consumption is very minimal, between 2-3 units per month for the control panel. In the long run, we can have a lot of savings as the breakdowns because of scaling in the pipes can be eliminated besides savings in avoiding chemical dosing for water softening. These ISSs are eco-friendly.

We have installed Plate Type Heat Exchangers manufactured under make in India initiative by Platemex India. We found the quality, delivery, and price of the product all good and performance is also satisfactory.

We wish M/s Platemex India all the best in their endeavor to reduce the environmental impact by installing CWWC for softening of water in industry and appreciate heat exchanger after-sales services initiative.

We wish them all the best in for promoting use of innovative Clean Water without chemicals and encouraging Make in India initiative.

For JSW Cement Ltd.,

G. Venrobba  
Chief Manufacturing Officer

Regd. Office JSW Cement,  
Bhosale Road, Solapur,  
Maharashtra 431003 (INDIA)  
Phone: 020-2440000  
Fax: 020-2410000

**CERTIFICATE**

This is to Certify that

**Quality Management System**

of

**PLATEX INDIA**

C/WING, SHOP NO. 108, RUNWAL, SEAGUL, HANDEWADI ROAD, HADAPSAR, PUNE - 411028, MAHARASHTRA, INDIA.

has been independently assessed by DBS and is compliant with the requirement of

**ISO 9001:2015**

For the following scope of activities:

MANUFACTURING OF ALL TYPES OF HEAT EXCHANGERS, ALL BRAND PHE SPARES, ON SITE SERVICING & REPAIRS OF HEAT EXCHANGERS, CLEAN IN PLACE SYSTEM, CLEAN WATER & UNDER WATER SOLUTION, CONDENSER EVAPORATOR AND EVAPORATIVE CONDENSER MANUFACTURING, SMALL SCALE EFFLUENT TREATMENT PLANT MANUFACTURING.

Certificate Number: Q-205022090510

Date of Certification:	5th September 2022
1 <sup>st</sup> Surveillance Audit Due:	4th September 2023
2 <sup>nd</sup> Surveillance Audit Due:	4th September 2024
Certificate Expiry:	4th September 2025

This Certificate is property of DBS Certifications and remains valid subject to satisfactory surveillance audits.

**DBS CERTIFICATIONS PVT. LTD.**  
 142, 1st Floor, Anar Building, Pashan Road, Chhatrapati Shivaji Maharaj, Mumbai - 400034, Maharashtra, India  
 Tel: 022-26020000  
 Email: info@dbscertifications.com, www.dbscertifications.com  
 ISO 9001:2015 Certified Service Provider (SAS) 2005, Solapur Street No. 100, B-1, Chhatrapati Shivaji Maharaj, Mumbai - 400034, Maharashtra, India



# ETERNITIVE

## OUR OFFERINGS

Bulk Milk Cooler  
Plate Heat Exchanger  
Shell & Tube Heat Exchanger  
Effluent Treatment Plant (SS)  
Hot Water Generation System  
Portable Clean In Place System  
Air Fins Heat Exchanger (Radiators)  
All Brand PHE Spares  
HeX Servicing and Refurbishment  
Condenser Tube Replacement  
Heat Exchanger Health Check  
HeX AMC  
Oil / Water Cooler - Heater  
Paseurizer - Chiller  
Condenser - Evaporator  
Fermenter - Wort Cooler  
All Brand PHE Spares  
HeX Servicing and Refurbishment  
Condenser Tube Replacement  
Heat Exchanger Health Check  
HeX Annual Maintenance Contract

**PARTNERED WITH**



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Factory Address: 690/6, Sabale Mala, Village: Wadki, Tal: Haveli, Dist: Pune - 412308