



**C. Doctor India Pvt. Ltd.**, founded in 1958, is a leading Indian company specializing in designing and manufacturing heat exchangers, pressure vessels, and industrial vacuum cleaning systems. The company is a member of Heat Transfer Research, Inc. (HTRI) and exports its products to various countries.

Headquartered in Ahmedabad, Gujarat, C. Doctor India Pvt. Ltd. operates a modern manufacturing facility and is part of a larger group of companies, including:

- **C. Doctor & Co. Pvt. Ltd.** – Specializes in industrial ventilation systems, metro and tunnel ventilation, and air pollution control solutions.
- **CB Doctor Ventilators Pvt. Ltd.** – Specializes in manufacturing centrifugal and axial flow fans.

Established in 1958 - A Company with 67 years of proud heritage.

# MANUFACTURING FACILITIES



- **C DOCTOR INDIA PVT. LTD.**
- **Unit-1 at Ahmedabad**
- Established in 1958 at Vatva GIDC.



- **C DOCTOR INDIA PVT. LTD.**
- **Unit-2 at Vadodara**
- Established in 2022 at Makarpura GIDC.



- **C DOCTOR INDIA PVT. LTD.**
- **Unit-3 at Vadodara**
- Established in 2024 at Por GIDC.

# MANUFACTURING FACILITIES



UNIT	WORKSHOP	BAY SIZE	COVERED AREA
UNIT-1 (Ahmedabad)	Workshop-1	60 X 15 meter	900 Sq. meter
	Workshop-2	100 X 23 meter	2300 Sq. meter
UNIT-2 (Makarpura)	Workshop-3	110 X 20 meter	2200 Sq. meter
UNIT-3 (Por)	Workshop-4	97 X 23 meter	2231 Sq. meter





### LUBE OIL SYSTEM – (Core Module)



#### Salient Features:

- ✓ **Tailored Solutions** – Designed to meet specific customer requirements, whether for power plants, refineries, or industrial applications.
- ✓ **Meets Global Standards** – ISO 9001, API 614, and other industry benchmarks ensure **world-class reliability and performance**.
- ✓ **Robust Material Selection** – Corrosion-resistant components increase durability, reducing maintenance costs.
- ✓ **Low Maintenance Design** – Easy-access components and modular construction allow quick servicing with minimal downtime.
- ✓ **High-Performance Oil Coolers**. Designing of Shell and Tube heat Exchangers as per TEMA-C and Air-cooled heat Exchanger compliant with API 661 & API 614 Standards

# PRODUCT SPECTRUM

## CDI-BARODA



### LUBE OIL SKID -Package Module



A lube oil system integrated with the gearbox of a steam turbine, often referred to as a Package Module, is a compact, self-contained system designed to provide continuous lubrication, cooling, and contamination control for the gearbox, bearings, and rotating components.

#### **Compact & Fully Integrated Design**

- ✓ **Modular Package System** – Pre-assembled skid-mounted unit, reducing installation time and costs.
- ✓ **Optimized Space Utilization** – Compact layout suitable for constrained industrial environments.

# PRODUCT SPECTRUM

## CDI-BARODA



Heavy duty Water Cooled Condenser



Turbine Piping Spools





# PRODUCT SPECTRUM

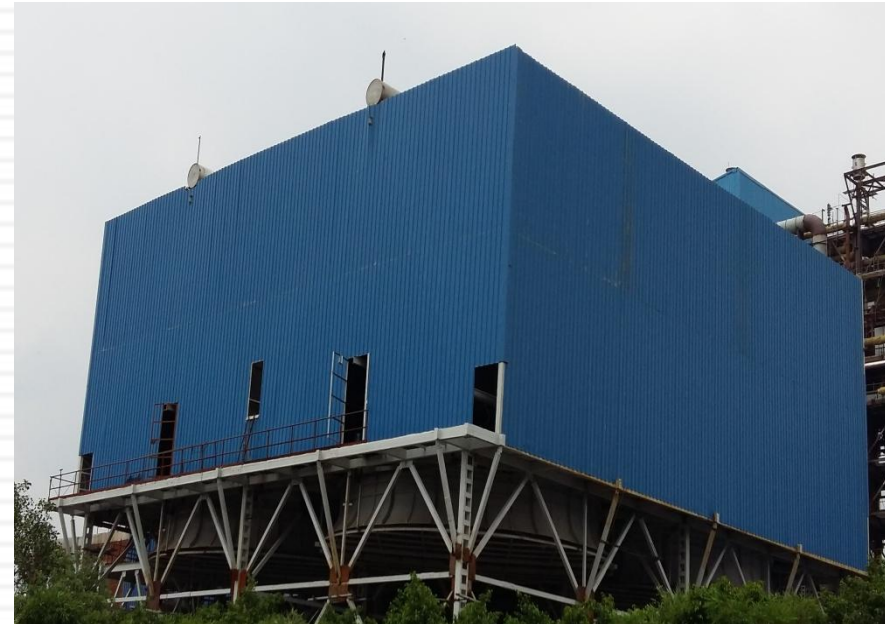
## CDI- AHMEDABAD



### WATER COOLED CONDENSER



### AIR COOLED CONDENSERS (ACC)



# PRODUCT SPECTRUM

## CDI- AHMEDABAD



### AIR COOLED HEAT EXCHANGER



#### Salient Features of an API 661-Compliant Heat Exchanger

- ✓ **Eliminates the Need for Water Cooling** – Reduces operational costs and makes the system suitable for **remote and water-scarce locations**.
- ✓ **Finned Tube Heat Exchanger Design** – Maximizes heat dissipation using ambient air.
- ✓ **Optimized Fan System** – Uses **forced or induced draft fans** to regulate oil temperature.

### STEAM COIL AIR PRE HEATER

#### Salient Features

- ✓ CE marking, compliance to the EU Directive PED with **Module G**





# PRODUCT SPECTRUM

## CDI- AHMEDABAD



### PRSSURE VESSELS



### BLOW DOWN TANK



#### Salient Features :

- ✓ ASME U-Stamp Certified – Compliant with ASME Section VIII, Div. 1 for superior safety and quality.
- ✓ Advanced Welding & Fabrication – Precision welding techniques (GTAW, GMAW, SMAW) ensuring durability and strength.
- ✓ Comprehensive Testing & Inspection – 100% radiography, hydrostatic testing, and non-destructive examination (NDE) for quality assurance.
- ✓ Compliance with International Standards – Adhering to API, and ISO for global industry needs.

# PRODUCT SPECTRUM

## CDI- AHMEDABAD



### STEAM COIL AIR PRE HEATER



### FEED WATER HEATER



# MAXIMUM PARAMETERS EXECUTED



## AT CDI, AHMEDABAD

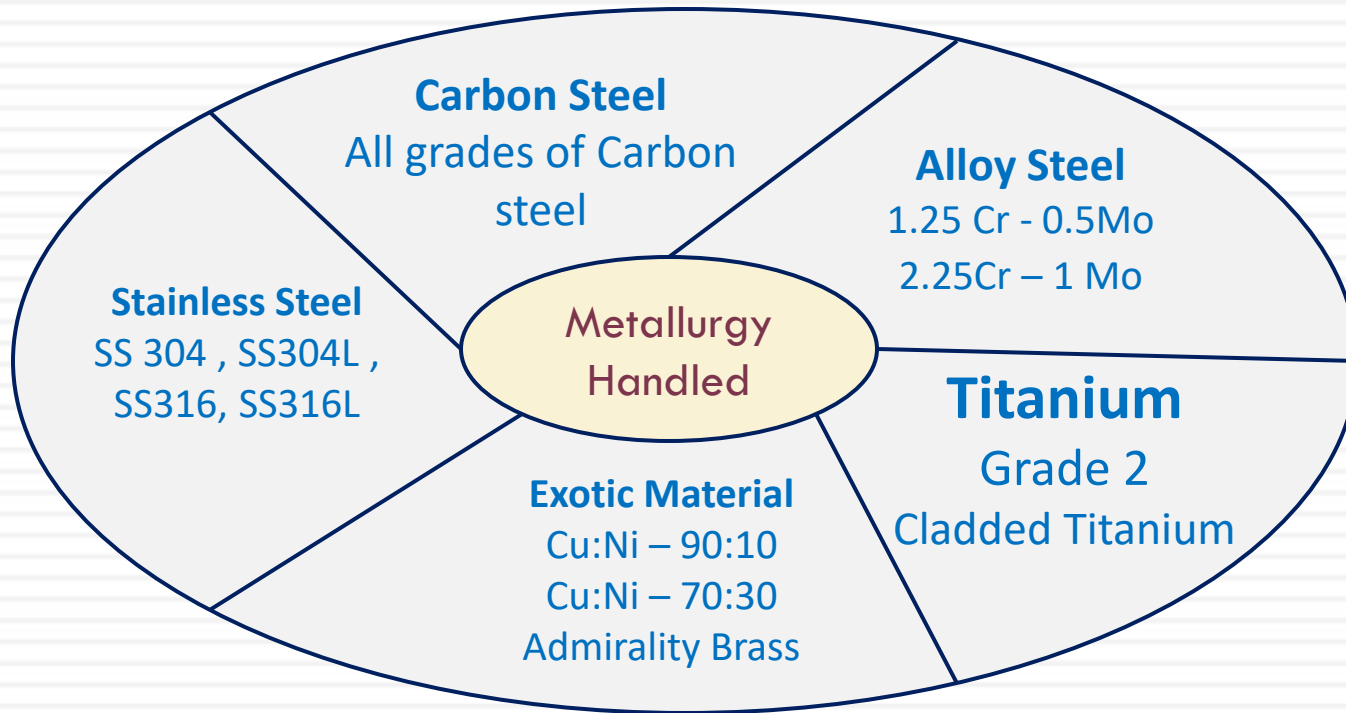
-	Shell Diameter	3.5 Meter
-	Weight	65 MT
-	Length	10 Meter
-	Shell Thickness	100 mm
-	Dish end Thickness	90 mm
-	Hydro Test Pres	350 kg/cm <sup>2</sup>
-	Tube Sheet thickness	280 mm
-	No. of Tubes	13000 Nos.
-	Tube Length	8 Mtr.

## AT CDI, VADODARA

-	Shell Diameter	5 Meter
-	Weight	151 MT
-	Length	13.5 Meter
-	No. of Tubes	16860 Nos.



# METALLURGY HANDLED



# CERTIFICATION & ACCREDITATION

# CERTIFICATION AND ACCREDITATION



## ISO 9001:2015

### Quality management systems



## ISO 14001:2015

### (Environmental Management System)



## ISO 45001:2018

### (Occupational Health and Safety Management System)





# CERTIFICATION AND ACCREDITATION



The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

C DOCTOR INDIA PVT. LTD.  
3607-3608, GIDC, PHASE IV, MAHMEDABAD HIGHWAY, VATVA  
GUJARAT, AHMEDABAD 382445  
India

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: April 20, 2024  
EXPIRES: April 20, 2027  
CERTIFICATE NUMBER: 59342

  
Board Chair,  
Conformity Assessment

   
Senior Director,  
Engineering Operations

## ASME U Stamp

The ASME U Stamp certifies that pressure vessels are designed, constructed, inspected, and tested according to the latest ASME regulations, ensuring both quality and safety.

# CERTIFICATION AND ACCREDITATION



The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

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COMPANY:

C DOCTOR INDIA PVT. LTD.  
3607-3608, GIDC, PHASE IV, MAHMEDABAD HIGHWAY, VATVA  
GUJARAT, AHMEDABAD 382445  
India

SCOPE:

Manufacture of Class 1 and Class 2 pressure vessels at the above location and field sites controlled by the above location

AUTHORIZED: April 20, 2024  
EXPIRES: April 20, 2027  
CERTIFICATE NUMBER: 61534

  
Board Chair,  
Conformity Assessment

   
Senior Director,  
Engineering Operations


## ASME U2 Stamp

The American Society of Mechanical Engineers (ASME) issues the U2 Vessel Stamp for unfired pressure vessels that meet its alternative construction standards upon inspection.

# CERTIFICATION AND ACCREDITATION

**THE NATIONAL BOARD  
OF  
BOILER & PRESSURE VESSEL INSPECTORS**

*Certificate of Authorization*




*This is to certify that*  
**C DOCTOR INDIA PVT. LTD.**  
3607-3608, GIDC, PHASE IV,  
MAHMEDABAD HIGHWAY, VATVA  
AHMEDABAD-382445, GUJARAT  
INDIA

*is authorized to use the R Symbol in accordance with the provisions  
of the National Board Inspection Code and NB-415, Accreditation  
of "R" Repair Organizations.*

*All activities within the scope of this Authorization shall be  
controlled by the above location.*

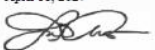
*The scope of this Authorization is limited to:*

Metallic  
Repairs and Alterations  
At  
Shop and Field Locations



Certification Number: 11666

Issue Date: April 23, 2024  
Expiration Date: April 18, 2027

Executive Director 

## ASME R Stamp

The R Symbol stamp is issued by the National Board of Boiler and Pressure Vessel Inspectors for the alteration and/or repair of pressure vessels, boilers, and other pressure-retaining equipment..



# CERTIFICATION AND ACCREDITATION




## ASME NB Stamp

The NB stamp signifies that a pressure-retaining item has been fabricated in accordance with the ASME Boiler and Pressure Vessel Code and has undergone inspection by a qualified National Board Commissioned Inspector...

# CERTIFICATION AND ACCREDITATION



  
**Office of the Director of Boiler, Gujarat State**  
3rd Floor, D Block, Bahubali Shantin, Bhujubali Hill Compound, Anand, Gandhinagar  
Ahmedabad - 380004  
e-mail - [cibhuahb@gujarat.gov.in](mailto:cibhuahb@gujarat.gov.in) & Web site :- <http://www.boiler.gujarat.gov.in>

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No. DOB/TECH/2024/CA062023-2024001644 Date: 25/04/2024

To,  
C Doctor India Pvt.Ltd,  
3607 08 G I D C Estate Phase IV Varva,382445

Sub: Extension of Approval of your workshop for Manufacturing of Steam Culs, Air-Preheater & Pressure Vessels under inspection of IBR - 1950 Code;

Ref: 1. First approval letter no.DOB/TECH/2022/CA062022-20230001060.dtd. 17-05-2022  
2. Your application no.A0032023-20240002486.dtd. 27-03-2024  
3. This office Inward no.20240/CB11134269727.dtd. 27-03-2024  
4. Government of Gujarat Notification No. GR - 2007 - 73 - IBA - 1099 - 1895 (1) - M - (3) dtd.31/08/2007

Sir,

With reference to above you subject & referred letter the approval granted to your firm for "Manufacturing of Steam Culs, Air-Preheater & Pressure Vessels" under inspection of IBR -1950 is extended for **Two year more**, i.e from **09/04/2024 to 08/04/2026** other conditions are remains same as per reference letter 1

Online receipt No.2514662 of Rs.10000.00 dtd.12/04/2024 for registration / renewal fees is received.  
Also you shall apply for renewal of this first inspection at least two months before the expiry of said period.

Yours Faithfully  
Digitally signed by **HIMMATLAL PATEL**  
Date: 2024.04.25 14:13 IST  
Reason: I am the Director of Boilers, Gujarat State, Ahmedabad.  
Location: Gandhinagar  
Signature Path:  
Director of Boilers,  
Gujarat State, Ahmedabad.

Copy to: D.O.B / TECH/2024 CA062023-20240001644 25/04/2024 Dated  
Shri B. H. Patel, Deputy Director of Boilers, Ahmedabad Region for information and necessary action

## Indian Boiler Regulation (IBR)

IBR covers design, fabrication, inspection, testing & certification of boilers or any boiler parts including feed piping and fittings or vessels attached thereto.

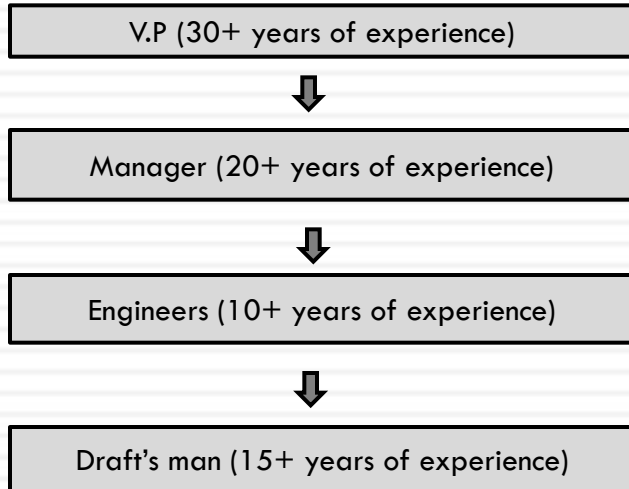


# ENGINEERING EXCELLENCE

# ENGINEERING EXCELLENCE

- The **Engineering Team at C. Doctor India Pvt. Ltd.** is the backbone of its innovation, precision, and high-quality manufacturing. With a team of highly skilled engineers, designers, and technical experts, the company specializes in providing advanced engineering solutions for steam turbines, compressors, lube oil systems, heat exchangers, and industrial piping.
- Our Engineering team consists of 12 professionals; (6 Engineers and 6 designer and draftsman.)

## Engineering Team:



- **2 HTRI License**
- **2 dedicated Engineers exclusively for Thermal Design**

# ENGINEERING EXCELLENCE

## Fast, Accurate Vessel Design & Evaluation

COADE offers two comprehensive yet easy-to-use software programs that provide engineers, designers, estimators, fabricators and inspectors with software that speeds their pressure vessel design requirements.

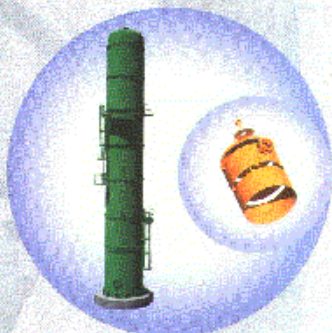
Whether you choose CodeCalc for structural stress analysis and design or the PVELite program for stress evaluation, the code vessel COADE software provides the most tailored to your design needs. And, you get top level R&DPE technical support.



### CodeCalc

Pressure design and individual component analysis

- Maximum pressure and minimum thickness calculations for tanks, shells and cones
- Common choices for nozzles, flanges, tubesheets, floating heads and vessel attachments
- Code calculations for other components — expansion joints, radiographic vessels, large openings



### PVELite

CodeCalc capabilities **PLUS** structural evaluation required for larger vessels

- Tanks designed for unsteady state water
- Includes the load components wind and earthquake
- Combines these novel loads with pressure to design and/or check vessel wall thickness
- Provides fast and reliable engineering design

## Mechanical Design

ASME SEC VIII Div.1, TEMA, API 660 and API 661

P. V. & H. E. on PVELite & CodeCalc Software by

M/s COADE, Inc., USA

**2 Engineers exclusively for Mechanical Design**

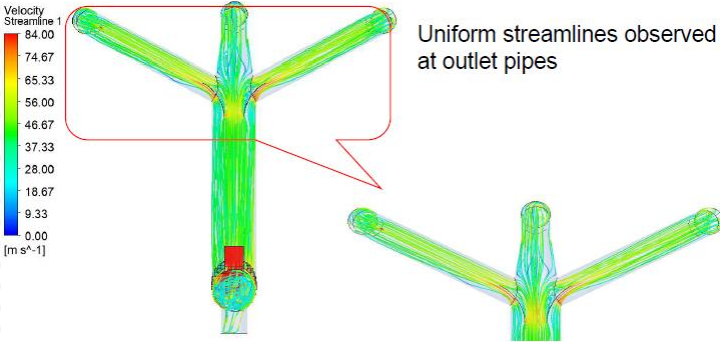
List of Software	No. Of License
HTRI Exchanger Suite 9.2	2
PV Elite	1
Code Calc	1
AutoCAD 2023	3



# ENGINEERING EXCELLENCE

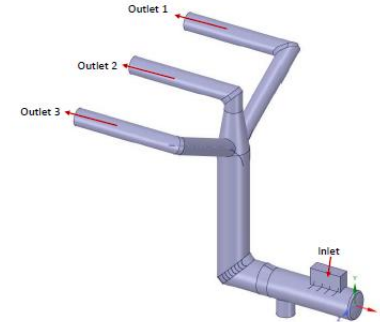
## (CFD Analysis- ANSYS)

### Velocity Streamline

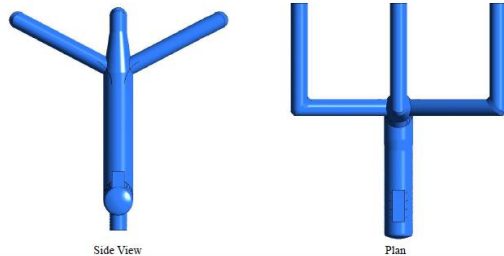


### Pressure Drop

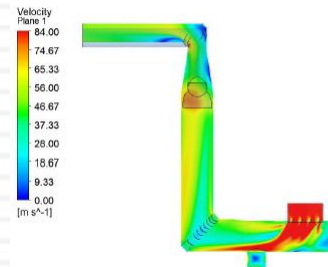
Location	Pa	MMWC
Outlet_1 - Inlet	-426.3	-43.5
Outlet_2 - Inlet	-315.3	-32.2
Outlet_3 - Inlet	-429.6	-43.8



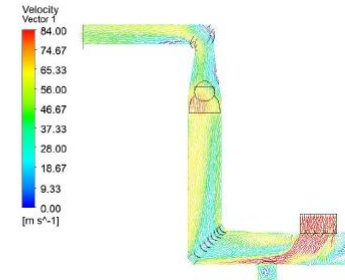
### Geometry



### Velocity Contour



### Vector plot



# ENGINEERING EXCELLENCE



## » Codes & Standards

- **ASME** - American Society of Mechanical Engineers
- **ASTM** - American Society of Testing material
- **TEMA** - Tubular Exchanger Manufacturers Association
- **HEI** - Heat Exchange Institute
- **API** - American Petroleum Institute
- **IS** – Indian Standard
- **IBR** - Indian Boiler Regulations
- **PED** – Pressure Equipment Directive



# MANUFACTURING FACILITIES

# MANUFACTURING FACILITIES

## CNC PLASMA CUTTING MACHINE



German make Plasma Cutting

Capacity :

CS – 1.65 mm to 100 mm thickness.

Copper – 1.65 mm to 100 mm thickness.

SS – 1.65 mm to 100 mm thickness.

Aluminum – 1.65 mm to 100 mm thickness.

## CNC LASER CUTTING MACHINE



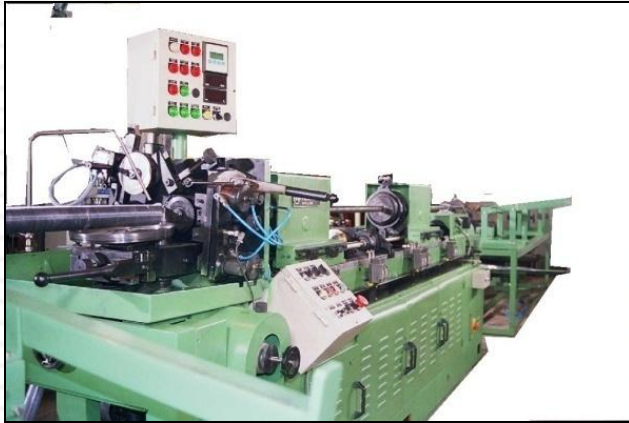
Range :- 1 mm to 25 mm thickness

Material Handled :-

Carbon Steel, Stainless Steel

# MANUFACTURING FACILITIES

## FINNING MACHINE - 1 No.



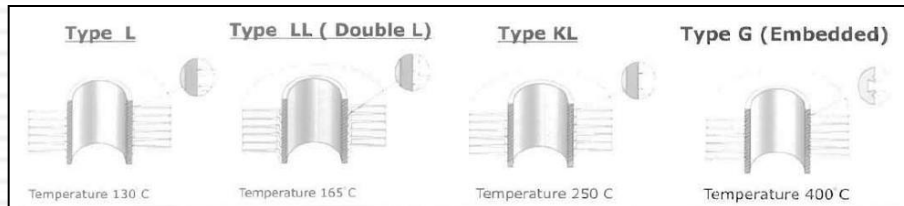
Make – PRECITECH ENG. BANGALORE INDIA

Fins Type :- 'G' Type

'L' Type

'KL' Type

Tubes : CS, SS max. 2" Dia./12 meter Length



Fins : Aluminum and Copper

6 to 12 FPI



# MANUFACTURING FACILITIES

## WELDING PROCESSES

- Arc Welding Machine (400 and 600 Amp.)  
Total – 8 Nos.
- TIG Welding Machine (400 Amp.)  
Total – 2 Nos.
- SAW Welding Machine (1000 Amp.)  
Total – 1 No.
- SMAW (Automatic) Machine  
Total – 1 No.



## WELDING ROTATOR

- Capacity of the Welding Rotator for handling of heavy equipment under fabrication:-
- 10 MT
- 15 MT
- 100 MT



# TESTING FACILITIES

- Thickness Coating Meter
- Sound Meter
- Anemo Meter
- Pressure Guages
- Vacuum Gauges
- Techo Meter
- Vibration Analyzer
- Level 2 Certified Quality Personnel for DP Testing
- Radiography and Ultrasonic Testing- Outsourcing



# SIGNATURE PROJECTS

# Manufacturing of Condensers at Vadodara Unit



Client: PT Inti Karya Persada Teknik (IKPT)

Engineering and Construction Batam, Indonesia

Weight: 97.7 MT

Diameter: 3.8 m

Tube sheet : Cladded Titanium

Tube : Titanium Grade B

Shell : SA 516 Gr 70

Tube to Tube sheet welding with orbital welding machine

# Manufacturing of Condensers at Vadodara Unit



- LIZTEX BRAZIL
- Empty Weight :- 151 MT
- Diameter :- 4.2 Meter
- Tube Material :- SA 249 TP 304
- Shell MOC: ASTM A36



# Manufacturing of Condensers at Vadodara Unit



- 1 X 48 MW - Godawari Power and Ispat Limited
- Empty Weight :- 123.2 MT
- Diameter :- 3.7 Meter
- Tube Material :- SA 249 TP 304
- Tube Qty :- 13,600 Nos.

# Manufacturing of Condensers at Vadodara Unit



- GUYANA POWER - BRAZIL
- Empty Weight :- 66 MT
- Diameter :- 3.2 Meter
- Tube Material :- SA 249 TP 316
- Length :- 11 meter

# Manufacturing of Condensers at Vadodara Unit



- Shyam Metallic Ltd.- 90 MW Project
- Empty Weight :- 143 MT
- Diameter :- 5 Meter
- Tube Material :- SA 249 TP 304
- Length :- 11 meter

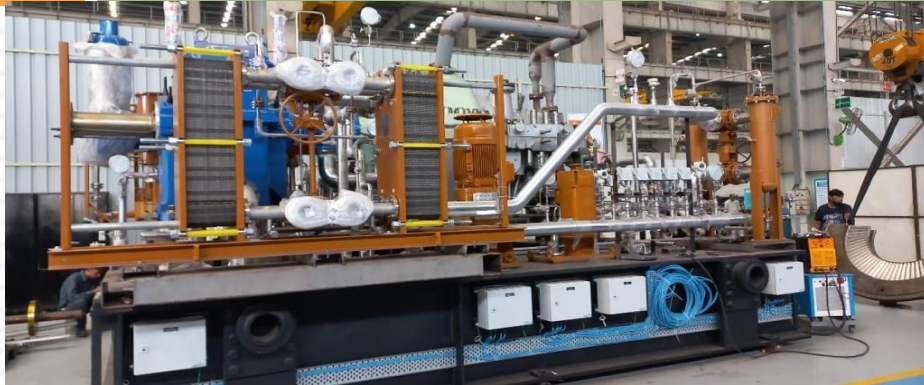
# Manufacturing of Turbine Piping at Vadodara Unit



- Shyam steel Manufacturing Ltd.
- 40MW CPP
- Max. Dia:- 12 Inch
- Material- SS 304/304L , SA 106 GR.B & Alloy- P11,P22



# Manufacturing of Lube Oil System at Vadodara Unit



- Lube Oil System – Package Module
- Siemens – Maha Sara Kham Ltd., Thailand - 9.9 MW Project
- Tank capacity: 18,900 LTr
- Capacity: 700 LPM





# Manufacturing of Lube Oil System at Vadodara Unit



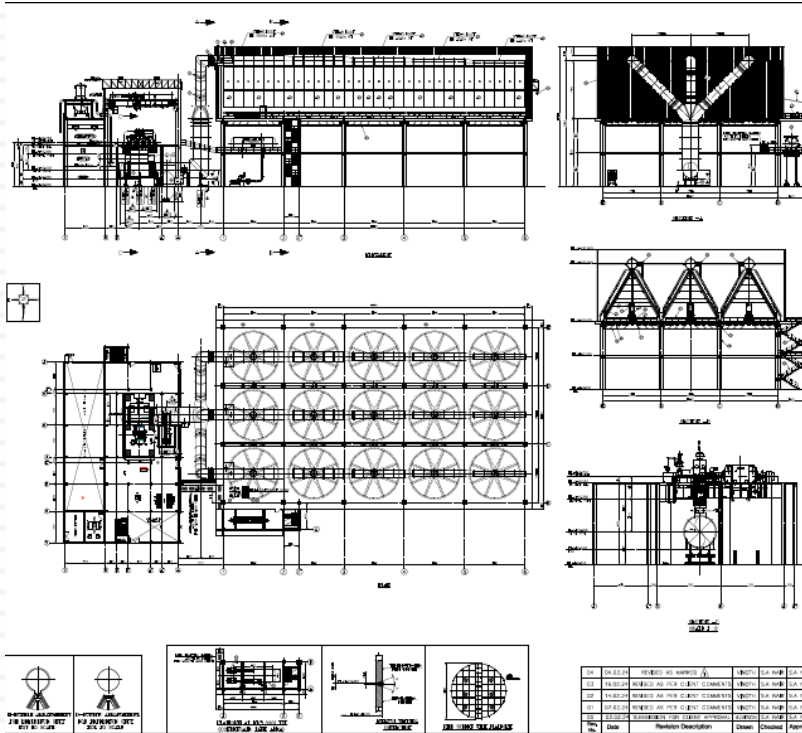
- Lube Oil System – Core Module
- Saisidha A/c Kidera Sugar Ltd. (10 MW) Project
- Tank Capacity: 8000 Ltr
- Flowrate: 620 LPM

# Manufacturing of Lube Oil System at Vadodara Unit



- Lube Oil System – Core Module
- Grasim Ind. Ltd. (3.35 MW) Project
- Tank Capacity: 2.5 Cu.Meter

# AT AHMEDABAD UNIT: AIR COOLED CONDENSERS



- Client :- Shree Cement Ltd
- St.Flow :- 120 TPH
- Duct Weight:- 210 MT
- Steel weight:- 400 MT
- No. of Cells :- 15





# AT AHMEDABAD UNIT: AIR COOLED CONDENSERS

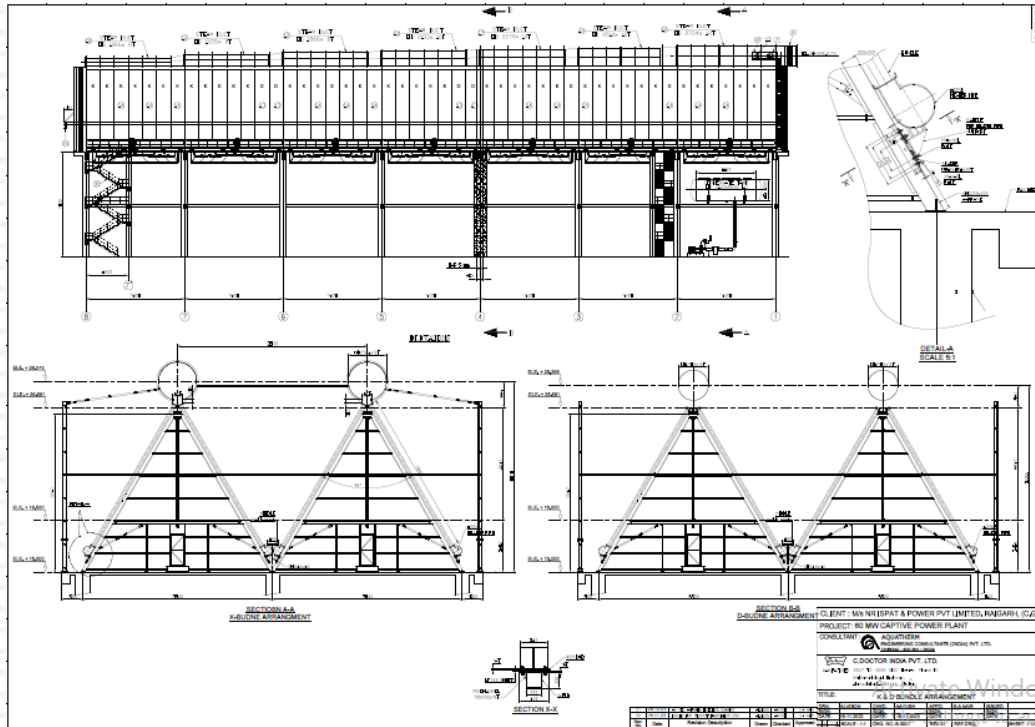
**KPR PROJECT ( 7.25 MW)**  
COMMISSIONED YEAR-2022



**BABANRAO JI SUGAR PLANT (18 MW)**  
COMMISSIONED YEAR-2021



# AT AHMEDABAD UNIT: AIR COOLED CONDENSERS



- Client :- NR Ispat & Power-India
- Project :- 60 MW CPP
- Duct Weight:- 205 MT
- Steel weight:- 380 MT
- No. of Cells :- 14



# CLIENTS:



SIEMENS  
energy

**Triveni**  
TURBINES

**DOOSAN**

**ANDRITZ**

Hitachi Zosen  
INOVA



GE VERNOVA

एनटीपीसी  
**NTPC**

**ISGEC**



**MI** **MHPS**

बी एच ई एल  
**BHEL**

**THERMAX**

**Reliance**  
Industries Limited

**TATA**  
**TATA CHEMICALS LIMITED**

## C DOCTOR INDIA PRIVATE LIMITED

### ADDRESS:

- (UNIT-I):- 3607-3608, GIDC, PHASE-IV, VATVA, AHMEDABAD, GUJARAT-382445
- (UNIT-II):- SURVEY NO- 276,290, SHAKTI LOGISTIC PARK, MAKARPURA GIDC, MANEJA,VADODARA, GUJARAT-390013
- (UNIT-III):- ATMIYA-11, POR G.I.D.C., VADODARA, GUJARAT

Contact us at

[arunsingh@cdoctorindia.com](mailto:arunsingh@cdoctorindia.com); [ahd@cdoctorindia.com](mailto:ahd@cdoctorindia.com)

Please Visit :- [www.cdoctorindia.com](http://www.cdoctorindia.com)