



**Metal Treatment**  
Expert Heat Treaters



# Corporate Profile

One of the Largest Heat Treatment Service Provider in India Since 1977

[www.ravimetal.com](http://www.ravimetal.com)



# About The Company

Ravi Metal Treatment is a leading service provider of heat treatment solutions to the industries in India and abroad. The company owns seven fully equipped and smartly manned facilities in the city of Rajkot, India.

Lead by the founder and proprietor Mr. Ramesh V Rachh, the company has achieved the leadership status through use of latest technologies with consistence upgradation of people, process and quality services. He has more then 45 + years of experience in the field of heat treatment, some of them being in the association of Czech and German Heat Treatment Experts. Being an undisputed specialists in the field of heat treatment of metal, the founder and the team pride themselves of having a strong and sustainable client base.

Since its inception, the founder has been a firm believer in delivering solutions that are effective and value generating. They do not just heat treat metal but enhance its properties for performance.

Mr. Rachh believes delivering quality in every aspect of the business should be an attitude of Ravi Metal Treatment. The company is ISO 9001 certified for its consistent focus on improvement of quality. Additionally, ethical business practices and an attitude to give the best and nothing but the best has empowered the company to build a trust amongst its clients and community.

Our expertise include Case Hardening, Carbo Nitriding, Gas Carburizing, Neutral Hardening, Stress Relieving, Sub Zero Treatment and Super cooling of low, medium, high carbon and high carbon high alloy steels.

We are proud to have a record of over 1500Ton/month qualitative, cost effective and in time delivery to our widely spread customers of India and Overseas.



# From The Founder's Desk

I see a world that is developing. I see a world that is constantly achieving. I see my world in **Ravi Metal Treatment**.

After giving 45+ years of my life to my mission of qualitative heat treatment, I am satisfied and fulfilled. These 45 years have been challenging and rewarding, putting together people and machines in perfect association to deliver services that made Ravi Metal Treatment a leader in it's sector.

It has been an incredible journey, presently when I see my team performing as leaders, I feel proud and happy. The mentorship delivered to these young minds has blossomed into an invincible force that is moving ahead with strong momentum. The several factory units we own operates efficiently and are all self sustained because of these leaders adapting to their responsibilities with enthusiasm and excitement.

I am satisfied and fulfilled, but not finished. I see the company out growing all its past achievements in the coming years through broader vision, much more demanding markets and highly challenging jobs that test our limits and inspires us to move towards higher achievements.

Here, I would like to challenge these young guns to move out of their comfort zones, go beyond their limits, invent, discover and evolve into an organization that lasts for years to come.

I see my world of Ravi Metal Treatment, developing, happy and achieving.

We thank all our valued customers for keeping the faith and trust intact since these many years. Thank you for your continued patronage.



## Our Mission And Vision

We will strive to achieve our vision through a positive blend of latest technology, updated knowledge, understanding customer needs and responding with proactive ideas to meet their needs effectively, efficiently and profitably. Our focus always will be enhancing customer value and top notch quality.

The company visualizes in becoming the most admired and preferred Heat Treatment Service provider by delivering solutions that not only meet but exceed the clients' expectations.

**AJI PLANT**

PIT TYPE GAS CARBURIZING FURNACE		
MAKE	NOS	CAPACITY
RMT	02	500 Kg.
RMT	11	950 Kg.
THERMO	02	1500 Kg.
SHAKER HEARTH FURNACE		
MAKE	NOS	CAPACITY
QTE	02	120 Kg./Hr.
TEMPERING FURNACE		
MAKE	NOS	CAPACITY
RMT	03	500 Kg.
RMT	17	950 Kg.
THERMO	04	1500 Kg.

**BHAKTINAGAR PLANT**

PIT TYPE GAS CARBURIZING FURNACE		
MAKE	NOS	CAPACITY
RMT	02	500 Kg.
TEMPERING FURNACE		
MAKE	NOS	CAPACITY
RMT	03	500 Kg.

**METODA PLANT**

PIT TYPE GAS CARBURIZING FURNACE		
MAKE	NOS	CAPACITY
RMT	01	800 Kg.
RMT	01	800 Kg.
RMT	02	1500 Kg.
SEALED QUENCH FURNACE		
MAKE	NOS	CAPACITY
RMT	03	850 Kg.
TES	02	1500 Kg.
SUB ZERO TREATMENT		
MAKE	NOS	CAPACITY
COMET	02	500 Kg. /Batch
COMET	01	850 Kg. / Batch
TEMPERING FURNACE		
MAKE	NOS	CAPACITY
RMT(SQT)	07	850 Kg.
RMT(PIT TYPE)	06	850 Kg.
RMT(PIT TYPE)	04	1500 Kg.
RMT(SQT)	06	1500 Kg.

# Plant **AJI & BHAKTINAGAR**



## **Pit Type Gas Carburizing & Hardening Furnace**

- No. of Furnaces: 21 Nos.
- Temperature Controller Type: MASIBUS, 2 set point with Digital Temp. Controller
- Accuracy of the Temperature Controller is  $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 3 Nos.
- Recorder Type: SCHNEIDER SCADA Data Logger Online 24/7 x 365 Days
- Method of controlling Carbon Potential is OXY-PROBE with CP Controller or Mv Controller



# Plant METODA



## Sealed Quench Furnace

- No. of Carburising Furnaces: 05 Nos.
- Carburizing medium used is LPG + METHANOL
- Temperature Controller Type: HONEYWELL TYPE/ STANGE / MASIBUS Through PLC High Set Point
- Accuracy of the Temperature Controller is  $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 2 Nos.
- Recorder Type: Data Logger Online 24/7 x 365 Days
- Furnace Atmosphere is monitored through an OXY-PROBE + HONEYWELL/STANGE CP Controller with Communication Port to PLC



## PROCESS OF HARDENING

### Shaker Hearth Furnace

- No. of Furnace: 02 Nos.
- Neutral Atmosphere is created by METHANOL/ NATURAL GAS
- Temperature Controller Type: MASIBUS, 2 set Point with Digital Temp. Controller
- Accuracy of the Temperature Controller  $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 6 Nos.
- Recorder Type: SCHNEIDER SCADA Data Logger Online 24/7 x 365 Days



## PROCESS OF STABILIZING

### Subzero Treatment

- No. of Sub Zero Chamber: 03 Nos.
- Temperature Controller Type: Eurotherm Programmable Digital Temperature Controller
- Accuracy of the Temperature Controller is  $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 1 Nos.
- Recorder Type: iTool Engineering Software Online 24/7 x 365 Days



### Supercooling

- No. Of Super Cooling Chamber: 1 NOS
- Thermocouple Used In Each Furnace: 2 NOS
- Controller Make: Sub Zero Lab Instruments
- Accuracy Of Temperature controller is  $\pm 2^{\circ}\text{C}$
- Recorder Type: 24/7 x 365 Days



## PROCESS OF TEMPERING

### Pit Type Tempering Furnace

- No. of Furnace: 43 Nos.
- Temperature Controller Type: MASIBUS, 2 Set Point with Digital Temperature Controller
- Accuracy of the Temperature Controller:  $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 2 Nos.
- Recorder Type: SCHNEIDER SCADA Data Logger Online 24/7 x 365 Days

### Chamber Type Tempering Furnace

- No. of Furnaces : 10 Nos.
- Temperature Controller: One through PLC & other through High Set Point
- Accuracy of the Temperature Controller is  $\pm 1^{\circ}\text{C}$
- Thermocouple used in each Furnace: 2 Nos.
- Recorder Type: Data Logger Online 24/7 x 365 Days



# Available (All Units) Metallurgical Equipments



DESCRIPTION	COMPANY	NOS.
Micro Vickers Hardness Tester	Shimadzu - Japan	03
Inverted Microscope	Olympus - Japan	02
Vickers/ Brinell Hardness Tester (1 to 50 Kgf.)	Fine	01
Rockwell Hardness Tester	Saroj/Fine	20
Superficial Hardness Tester	Saroj/Fine	02
Brinell Hardness Tester	Saroj/Fine	04
Digital Portable Hardness Tester	Fine	04
Cut Off Machine	Chennai Metco	04
Pneumatic type Hot Moulding Machine	Chennai Metco	03
Disc type Polishing Machine	Chennai Metco	03
Spectrometer	Metal Power	01



Rockwell Hardness  
Testing Machine



Brinell Hardness  
Testing Machine



Micro Vickers  
Hardness Tester



Inverted Microscope  
of Olympus

## FREQUENCY OF CALIBRATION & TESTING

### **Oxygen Probe:**

Every 6 Months (Replaced)

### **Temperature Controller:**

Yearly (Outsourced)

### **Rockwell Hardness Tester:**

Monthly (Outsourced)

(In-house Daily On Standard Block)

### **Brinell Hardness Tester:**

Every 6 Months (Outsourced)

(In-house Daily On Standard Block)

### **Furnace Validation:**

9 Point Calibration Yearly (As per CQI-9 Standard)

### **Vickers Hardness Tester:**

Yearly

### **Microscope:**

Yearly

### **Thermocouple:**

Hardening Furnace

Tempering Furnace

### **Quench Oil Testing:**

Every 6 Months

### **System Accuracy Test:**

Quarterly As Per CQI9

### **Washing Liquid:**

PH value & concentration checked daily

### **Scada Data Back Up:**

5 To 10 Years (Depending On Data File Size)

### **Temperature Uniformity Survey:**

Yearly As per CQI9 & API6A

### **CP Controller:**

Every 6 Months (Outsourced)

# MATERIAL(S) PROCESSED AT RAVI METAL TREATMENT

HARDENING & TEMPERING	
SR NO	MATERIAL
1	EN8
2	EN8D
3	EN9
4	EN15A
5	EN18D
6	EN19
7	4130
8	4140
9	34CR4
10	42CRMO4
11	C45
12	P20
13	EN24
14	EN31
15	EN42
16	EN43
17	EN44
18	EN45
19	EN46
20	EN46
21	52100
22	10CR6
23	OHNS
24	ALL CASTING GRADE

CARBURIZING	
SR NO	MATERIAL
1	EN352
2	EN353
3	EN354
4	SAE8620
5	20MNCR5
6	17CRMO4
7	18CRMO6
8	EN32B
9	EN36C
10	EN1A
11	SAE1010
12	SAE1018
13	SAE1020
14	SAE1026
15	SAE1045
16	SCM415
17	SCM420
18	SCM435
19	MS
20	16MNCR5
21	SAE3310
22	25MOCR4

HOT DIE STEEL	
SR NO	MATERIAL
1	H11
2	H13
3	D2
4	D3
5	WPS
6	SS410
7	SS420
8	SS430
9	SS431
10	SS440
11	EN52
12	EN42J
13	174PH



# CERTIFICATE

The Certification Body  
of TÜV SÜD South Asia Private Limited  
certifies that

**RAVI METAL TREATMENT PRIVATE LIMITED (Unit 5)**  
Plot No C-1-227, E1 Road, Aji GIDC,  
Rajkot - 360 003, Gujarat, India  
including the sites and scope of application see enclosure

has implemented Quality Management System  
in accordance with **ISO 9001:2015**  
for the scope of

**Heat Treatment of Ferrous Materials for Processes like Gas Carburising,  
Carbonitriding, Stress Relieving, Through Hardening and Tempering.**

The certificate is valid from **2025-11-14** until **2028-11-13**

Subject to successful completion of annual periodic audits

The present status of this certificate can be obtained through TÜV SUD website by scanning below QR code and by entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of this certificate may be obtained by consulting the certification body at [info.in@tuvsud.com](mailto:info.in@tuvsud.com)

Certificate Registration No. **99 100 03380**

Date of Initial certification: **2007-12-27**

Issue Date: **2026-04-13** Rev. 01

Rahul Kale  
Head of Certification Body  
of TÜV SÜD South Asia Private Limited,  
**Mumbai**  
Member of TÜV SÜD Group  
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# CERTIFICATE

The Certification Body  
of TÜV SÜD South Asia Private Limited  
certifies that

**RAVI METAL TREATMENT PRIVATE LIMITED (Unit 5)**  
Plot No C-1-227, E1 Road, Aji GIDC,  
Rajkot - 360 003, Gujarat, India

has implemented Quality Management System  
in accordance with **ISO 9001:2015**  
for the scope of

**Heat Treatment of Ferrous Materials for Processes like Gas Carburising,  
Carbonitriding, Stress Relieving, Through Hardening and Tempering.**

The certificate is valid in conjunction  
with the main certificate from **2025-11-14** until **2028-11-13**

Subject to successful completion of annual periodic audits

The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of this certificate may be obtained by consulting the certification body at [info.in@tuvsud.com](mailto:info.in@tuvsud.com)

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Rahul Kale  
Head of Certification Body  
of TÜV SÜD South Asia Private Limited,  
**Mumbai**  
Member of TÜV SÜD Group



# Our Clientele

We are **Directly or Indirectly** tied up with these Companies for providing **Heat Treatment Services.**



**Disclaimer:** The Brand names and the Company logos mentioned in the entire document belong to the respective owners and have been used for reference purpose only.



## Head Office:

C1/227, Road E1, GIDC, Aji Industrial Area,  
Aji Vasahat, Rajkot - 360 003 (Gujrat), India

☎ +91 72280 14906 to 72280 14913

✉ info@ravimetal.com

🌐 www.ravimetal.com



### Unit-1:

21/W GIDC, Industrial Area, Bhaktinagar,  
Rajkot - 360 002

☎ +91-72280 14914- 15

+91 92279 45684

✉ bhaktinagar@ravimetal.com

### Unit-2:

C1-/302, Road-E1, GIDC, Aji Industrial Estate,  
Aji Vasahat, Rajkot - 360 003

☎ +91-72280 14906- 13

+91 92279 45677

✉ plant302@ravimetal.com

### Unit-2/A:

C1/306, Road E1, GIDC, Aji Industrial Estate,  
Aji Vasahat, Rajkot - 360 003

☎ +91-7228014906- 13

+91 92279 45679

✉ plant306@ravimetal.com

### Unit-3:

C1-B/225, Road E1, GIDC, Aji Industrial Estate,  
Aji Vasahat, Rajkot - 360 003

☎ +91-72280 14906 to 13

+91 92279 45680

✉ plant225@ravimetal.com

### Unit-4:

C1/227, Road E1, GIDC, Aji Industrial Area,  
Aji Vasahat, Rajkot - 360 003 (Gujrat), India

☎ +91-72280 14906 to 13

+91 92279 45670

✉ plant227@ravimetal.com

### Unit-5:

C1/226, Road E1, GIDC, Aji Industrial Area,  
Aji Vasahat, Rajkot - 360 003 (Gujrat), India

☎ +91-72280 14906 to 13

+91 92279 45682

✉ purchase@ravimetal.com

### Unit-6:

G-1/AB, GIDC, Lodhika Industrial Area, Lodhika,  
Metoda-360 021, Dist. Rajkot(Gujrat), India

☎ +91-72280 14918- 19

+91 9227945689 / 9227945675

✉ plantmetoda@ravimetal.com