



RATNADEEP

METAL & TUBES LTD.



Illuminating Excellence.

ratnadeepmetal.com



Illuminating Excellence.

To **illuminate excellence** in tubes & pipes manufacturing by consistently providing superior products, driving innovation, and empowering clients to achieve their project goals.



20⁺ YEARS

A legacy of “Evolving brilliance”

Unmatched Quality:

Delivering superior products built to last.

Unwavering Innovation:

Continuously pushing boundaries and exploring new possibilities.

Client-Centric Solutions:

Partnering with clients to understand their needs and deliver customized solutions.

Global Reach and Expertise:

Offering a vast product range and unparalleled knowledge to meet your needs worldwide.

Sustainable Practices:

Embracing responsible manufacturing for a brighter future.

About us

Ratnadeep illuminates excellence in the manufacturing of tubes and pipes. We specialize in seamless and welded options across Stainless Steel, Nickel Alloy, Titanium, Carbon Steel and Alloy Steel. Equipped with modern production facilities, in-house bright annealing and the capability to meet international standards, Ratnadeep ensures that every single tube and pipe surpasses global requirements. Our quality management system guarantees complete traceability with comprehensive documentation.



Founder, Mr. Bharat S. Sanghavi, brings over 40 years of experience in the field and his legacy of trusted quality is now carried by his son, Mr. Jaimik B. Sanghavi.

With a workforce exceeding 500, Ratnadeep leverages a strong infrastructure and a team of highly qualified, experienced engineers. We strive for excellence in a professionally managed environment built on transparency and a commitment to long-term customer relationships.

Ratnadeep's extensive manufacturing program encompasses a wide range, with external diameters ranging from 3.0 mm to 323.9 mm and wall thicknesses from 0.5 mm to 15.00 mm. Our annual production volume surpasses an impressive 10,000 metric tons.

Vision

To be the leading manufacturer of high-performance pipes and tubes, recognized for our unwavering commitment to quality, innovation, and sustainability.

Mission

To illuminate the path towards a brighter future in tubes & pipes by consistently exceeding customer expectations through exceptional products, advance manufacturing process, and unwavering dedication to excellence.

Values

Excellence:

Uncompromising commitment to the highest quality standards in manufacturing and service.

Innovation:

Continuous pursuit of new technologies and solutions to push the boundaries of the industry.

Client Focus:

Building strong partnerships and empowering clients to succeed through reliable products and expertise.

Integrity:

Conducting business with honesty, fairness, and transparency in all our interactions.



Industries we serve

Oil & Gas | Petrochemicals & Refineries | Power Plants |
Chemical Industries | Automotive | LNG | Fertilizers |
Pharmaceutical | Defence | Food & Beverage | Marine |
Aerospace | Mechanical | Pulp & Papers | Textile |
Cryogenic | Desalination Plants | Steel Plants



GO GREEN



Sustainability:

Ratnadeep powers its manufacturing with sustainable green energy, reducing its carbon footprint and fostering environmental responsibility.

Stainless Steel Seamless Tubes & "U" Tubes

(High Precision & Heat Exchanger Tubing)

Bright Annealed, Solution Annealed, Pickled & Passivated

| Outside Diameter | Wall Thickness | Length | Specifications |
|-------------------------------|---|----------------------|-------------------------|
| 6.00 mm OD To 101.60 mm | 0.50 mm To 10.00 mm | Maximum 35 Meters | ASTM, ASME, EN, JIS. |
| Grades | TP 304/L/H/N/LN, TP 316/L/H/Ti/N/LN, TP 310/H/S, TP 317/L, TP 321/H, TP 347/H/HFG, TP 904L, TP 405, TP 410, TP 430, TP 439, TP 446-1, UNS S31500, S31803, S32205, S32750, S32760, S32304. | | |

Stainless Steel Seamless Tubes

(Hydraulic & Instrumentation Tubing) | (Straight Length & Coil Form)

Bright Annealed

| Outside Diameter | Wall Thickness | Length | Specifications |
|------------------------------|--|---|-------------------------|
| 3.00 mm OD To 63.50 mm | 0.50 mm To 6.00 mm | Up to 35 Meter in Straight & 100 Meter for Small Diameter in Coil Form | ASTM, ASME, EN, JIS. |
| Grades | TP 304/L/H, TP 316/L/H/Ti, TP 310/H/S, TP 317/L, TP 321/H, TP 347/H, TP 904L. UNS S31500, S31803, S32205, S32750, S32760 | | |

| Stainless Steel Seamless Pipes Solution Annealed, Pickled & Passivated | | |
|--|---|-------------------|
| Outside Diameter | Wall Thickness | Specifications |
| NPS 1/8" To NPS 12" | SCH 5s To 15.00 mm | ASTM, ASME, EN |
| Grades | TP 304/L/H, TP 316/L/H/Ti, TP 317/L, TP 321/H, TP 310/H/S, TP 347/H/HFG, TP 904L, UNS S31803, S32205, S32750, S32760 | |

| Stainless Steel Welded Tubes / Pipes & "U" Tubes Bright Annealed, Solution Annealed, Pickled & Passivated | | | |
|---|--|-------------------|-------------------------|
| Outside Diameter | Wall Thickness | Length | Specifications |
| 3.00 mm OD To 114.30 mm | 0.50 mm To 6.02 mm | Up To 35 Meter | ASTM, ASME, EN, JIS. |
| Grades | TP 304/L/H/N/LN, TP 316/L/H/Ti/N/LN, TP 317/L, TP 321/H, TP 310/H/S, TP 904L, TP 409, TP 430, TP 439, UNS S31500, S31803, S32205, S32750, S32760, S32304 | | |

Nickel Alloy Seamless Tubes & "U" Tubes
Bright Annealed, Solution Annealed, Pickled & Passivated

| Outside Diameter | Wall Thickness | Length | Specifications |
|---------------------------|--|-------------------|----------------|
| 6.00 mm To 76.10 mm | 0.71 mm To 10.00 mm | Up To 25 Mtrs. | ASTM & ASME |
| Grades | N04400, N06600, N06625, N08800, N08825, NI0276, etc. | | |



Carbon Steel & Alloy Steel Seamless Tubes & "U" Tubes

(High Precision & Heat Exchanger Tubing)

(Bright Annealed)

| Outside Diameter | Wall Thickness | Length | Specifications |
|------------------------------------|--|----------------------|------------------------|
| 6.00 mm OD To 101.6 mm | 0.50 mm To 10.00 mm | Maximum 35 Meters | ASTM, ASME, EN, BS. |
| Specifications & Grades | A/SA 179, 192 A/SA 210 Gr "A1", "C" A/SA 213 Gr T1, T2, T5, T9, T11, T12, T22, T91 A/SA 334 Gr "1", "3", "4", "6" EN 10216-1, -2, -3, -4 P/E-195, P/E215, P/E235, P/E255, P265/E, P275, P355, P460 EN10216-2 :- 4, 16Mo3, 10CrMo5-5, 10CrMo9-10, X11CrMo5, X11CrMo9-1, X10CrMoVNB9-1 BS 3059, BS3602 | | |

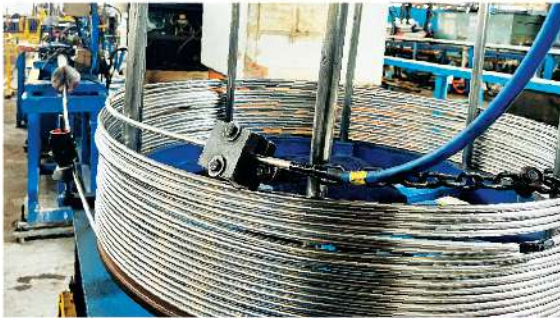
Carbon Steel & Alloy Steel Seamless Pipes

| Outside Diameter | Wall Thickness | Length | Specifications |
|------------------------------------|---|----------------------|--------------------|
| NPS 1/8" TO NPS 12" | SCH 5 TO 15.00 mm | Maximum 18 Meters | ASTM, ASME, EN. |
| Specifications & Grades | A/SA 106 Gr "A", "B", "C" A/SA 53 Gr "A", "B" A/SA 335 Gr P1, P2, P5, P9, P11, P12, P22, P91 A/SA 333 Gr "1", "3", "4", "6" EN 10216-1, -2, -3, -4 P/E-195, P/E215, P/E235, P/E255, P265/E, P275, P355, P460 EN10216-2 :- 4, 16Mo3, 10CrMo5-5, 10CrMo9-10, X11CrMo5, X11CrMo9-1, X10CrMoVNB9-1 | | |

Carbon Steel Seamless Precision, Fuel Injection & Hydraulic Tubes/Pipes

(Phosphated, Zinc Plated, Bright Annealed)

| Outside Diameter | Wall Thickness | Length | Specifications |
|------------------------------|--|---|--------------------------------|
| 6.00 mm OD To 76.10 mm | 0.50 mm To 7.00 mm | Maximum 35 Meters & Request By Customer | ASTM, ASME, DIN EN (GERMAN) |
| Grades | EN 10216-1 : P235TR1, P235TR2 EN 10305-1 ; -4 : E215, E235, E255, E355 EN 10216-4 : P215NL, P265NL EN 10216-3 : P275NL1 | | |



| SEAMLESS PIPE | | | | | | | | | | | | | | | | |
|--|--------|--------|--------|---------|--------|---------|--------|---------|--------|----------|--------|----------|--------|-------|--------|-------|
| APPROXIMATE WEIGHTS ACC.TO.ANSI / ASME B36.19 AND ASME B36.10 DIMENSIONS | | | | | | | | | | | | | | | | |
| NPS | OD | SCH 5S | | SCH 10S | | SCH 40S | | SCH 80S | | SCH 120S | | SCH 160S | | XXS | | |
| | | WALL | WT | WALL | WT | WALL | WT | WALL | WT | WALL | WT | WALL | WT | WALL | WT | |
| | | mm | kg/m | mm | kg/m | mm | kg/m | mm | kg/m | mm | kg/m | mm | kg/m | mm | kg/m | mm |
| | inches | lb/ft | inches | lb/ft | inches | lb/ft | inches | lb/ft | inches | lb/ft | inches | lb/ft | inches | lb/ft | inches | lb/ft |
| 1/8" | 10.29 | 0.89 | 0.21 | 1.24 | 0.28 | 1.73 | 0.37 | 2.41 | 0.48 | | | | | | | |
| | 0.40S | 0.035 | 0.14 | 0.049 | 0.19 | 0.068 | 0.25 | 0.095 | 0.32 | | | | | | | |
| 1/4" | 13.72 | 1.24 | 0.39 | 1.65 | 0.50 | 2.24 | 0.64 | 3.02 | 0.81 | | | | | | | |
| | 0.540 | 0.049 | 0.26 | 0.065 | 0.34 | 0.088 | 0.43 | 0.119 | 0.54 | | | | | | | |
| 3/8" | 17.15 | 1.24 | 0.49 | 1.65 | 0.64 | 2.31 | 0.86 | 3.20 | 1.12 | | | | | | | |
| | 0.675 | 0.049 | 0.33 | 0.065 | 0.43 | 0.091 | 0.58 | 0.126 | 0.75 | | | | | | | |
| 1/2" | 21.34 | 1.65 | 0.81 | 2.11 | 1.02 | 2.77 | 1.29 | 3.73 | 1.64 | | | 4.78 | 1.98 | | | |
| | 0.840 | 0.065 | 0.54 | 0.083 | 0.68 | 0.109 | 0.87 | 0.147 | 1.10 | | | 0.188 | 1.33 | | | |
| 3/4" | 26.67 | 1.65 | 1.03 | 2.11 | 1.30 | 2.87 | 1.71 | 3.91 | 2.23 | | | 5.56 | 2.94 | | | |
| | 1.050 | 0.065 | 0.69 | 0.083 | 0.87 | 0.113 | 1.15 | 0.154 | 1.50 | | | 0.219 | 1.97 | | | |
| 1" | 33.40 | 1.65 | 1.31 | 2.77 | 2.12 | 3.38 | 2.54 | 4.55 | 3.29 | | | 6.35 | 4.30 | 9.09 | 5.53 | |
| | 1.315 | 0.065 | 0.88 | 0.109 | 1.43 | 0.133 | 1.71 | 0.179 | 2.21 | | | 0.250 | 2.89 | 0.358 | 3.71 | |
| 1 1/4" | 42.16 | 1.65 | 1.67 | 2.77 | 2.73 | 3.56 | 3.44 | 4.85 | 4.53 | | | 6.35 | 5.69 | 9.70 | 7.88 | |
| | 1.660 | 0.065 | 1.12 | 0.109 | 1.83 | 0.140 | 2.31 | 0.191 | 3.04 | | | 0.250 | 3.82 | 0.382 | 5.29 | |
| 1 1/2" | 48.26 | 1.65 | 1.93 | 2.77 | 3.15 | 3.68 | 4.11 | 5.08 | 5.49 | | | 7.14 | 7.35 | 10.16 | 9.69 | |
| | 1.900 | 0.065 | 1.30 | 0.109 | 2.12 | 0.145 | 2.76 | 0.200 | 3.69 | | | 0.281 | 4.93 | 0.400 | 6.51 | |
| 2" | 60.32 | 1.65 | 2.42 | 2.77 | 3.99 | 3.91 | 5.52 | 5.54 | 7.60 | | | 8.74 | 11.29 | 11.07 | 13.65 | |
| | 2.375 | 0.065 | 1.62 | 0.109 | 2.98 | 0.154 | 3.71 | 0.218 | 5.10 | | | 0.344 | 7.58 | 0.436 | 9.16 | |
| 2 1/2" | 73.02 | 2.11 | 3.75 | 3.05 | 5.34 | 5.16 | 8.77 | 7.01 | 11.58 | | | 9.52 | 15.14 | 14.02 | 20.71 | |
| | 2.875 | 0.083 | 2.52 | 0.120 | 3.59 | 0.203 | 5.89 | 0.276 | 7.78 | | | 0.375 | 10.16 | 0.552 | 13.90 | |
| 3" | 88.90 | 2.11 | 4.59 | 3.05 | 6.56 | 5.49 | 11.46 | 7.62 | 15.50 | | | 11.13 | 21.67 | 15.24 | 28.10 | |
| | 3.500 | 0.083 | 3.08 | 0.120 | 4.40 | 0.216 | 7.70 | 0.300 | 10.41 | | | 0.438 | 14.55 | 0.600 | 18.87 | |
| 3 1/2" | 101.60 | 2.11 | 5.25 | 3.05 | 7.52 | 5.74 | 13.77 | 8.08 | 18.92 | | | 12.70 | 25.26 | 16.15 | 34.55 | |
| | 4.000 | 0.083 | 3.53 | 0.120 | 5.05 | 0.226 | 9.25 | 0.318 | 12.70 | | | 0.500 | 18.67 | 0.636 | 23.19 | |
| 4" | 114.30 | 2.11 | 5.92 | 3.05 | 8.49 | 6.02 | 16.32 | 8.56 | 22.66 | 11.13 | 28.74 | 13.49 | 34.04 | 17.12 | 41.66 | |
| | 4.500 | 0.083 | 3.98 | 0.120 | 5.70 | 0.237 | 10.96 | 0.337 | 15.21 | 0.438 | 19.30 | 0.531 | 22.85 | 0.674 | 27.97 | |
| 5" | 141.30 | 2.77 | 9.59 | 3.40 | 11.74 | 6.55 | 22.09 | 9.52 | 31.41 | 12.70 | 40.88 | 15.88 | 49.87 | 19.05 | 58.32 | |
| | 5.563 | 0.109 | 6.44 | 0.134 | 7.88 | 0.258 | 14.83 | 0.375 | 21.09 | 0.500 | 27.45 | 0.625 | 33.48 | 0.750 | 39.15 | |
| 6" | 168.30 | 2.77 | 11.46 | 3.40 | 14.03 | 7.11 | 28.69 | 10.97 | 43.20 | 14.27 | 55.02 | 18.26 | 68.59 | 21.95 | 80.43 | |
| | 6.625 | 0.109 | 7.70 | 0.134 | 9.42 | 0.280 | 19.26 | 0.432 | 29.00 | 0.562 | 36.04 | 0.719 | 46.05 | 0.864 | 54.00 | |
| 8" | 219.08 | 2.77 | 14.98 | 3.76 | 20.27 | 8.18 | 43.19 | 12.70 | 65.61 | 18.26 | 91.79 | 23.04 | 112.94 | 22.22 | 109.53 | |
| | 8.625 | 0.109 | 10.06 | 0.148 | 13.61 | 0.322 | 28.99 | 0.500 | 44.05 | 0.719 | 61.63 | 0.906 | 75.82 | 0.875 | 73.53 | |
| 10" | 273.05 | 3.40 | 22.92 | 4.19 | 28.16 | 9.27 | 61.13 | 12.70 | 82.66 | 21.44 | 134.86 | 28.58 | 174.67 | 25.40 | 157.26 | |
| | 10.750 | 0.133 | 15.40 | 0.164 | 18.92 | 0.364 | 41.07 | 0.500 | 55.54 | 0.844 | 90.62 | 1.125 | 117.37 | 1.000 | 105.67 | |
| 12" | 323.85 | 3.96 | 31.67 | 4.57 | 36.48 | 9.53 | 74.89 | 12.70 | 98.79 | 25.40 | 189.52 | 33.32 | 242.01 | 25.40 | 189.52 | |
| | 12.750 | 0.155 | 21.28 | 0.179 | 24.51 | 0.375 | 50.32 | 0.500 | 66.38 | 1.000 | 127.35 | 1.311 | 162.62 | 1.000 | 127.35 | |

Inspection & Quality Testing

Ratnadeep maintains high manufacturing standards by sourcing raw materials from premium suppliers and conducting rigorous quality checks. Utilizing advanced technologies and meticulous procedures, we ensure consistent product quality throughout the manufacturing process.



Destructive Testing

- Tensile
- Hardness
- Flattening
- Flaring/Drift Expanding
- Flange
- Reverse-Bend
- IGC Test - Practice A, B, C & E
- Impact
- Hot Tensile
- Ferrite
- Micro & Macro

Non - Destructive Testing

- Hydrostatic
- Eddy Current Test
- Ultrasonic Test with Thickness measurement
- Air Under Water (Pneumatic)
- Positive Material Identification (PMI)
- Spectro Test
- Dye Penetrant Test
- Boroscopic (ID Camera) Test
- RFET & IRIS
- Surface Roughness

Certifications



ISO 9001: 2015



ISO 14001: 2015



ISO 45001: 2018



PED & ADWO



Marine



NORSOK

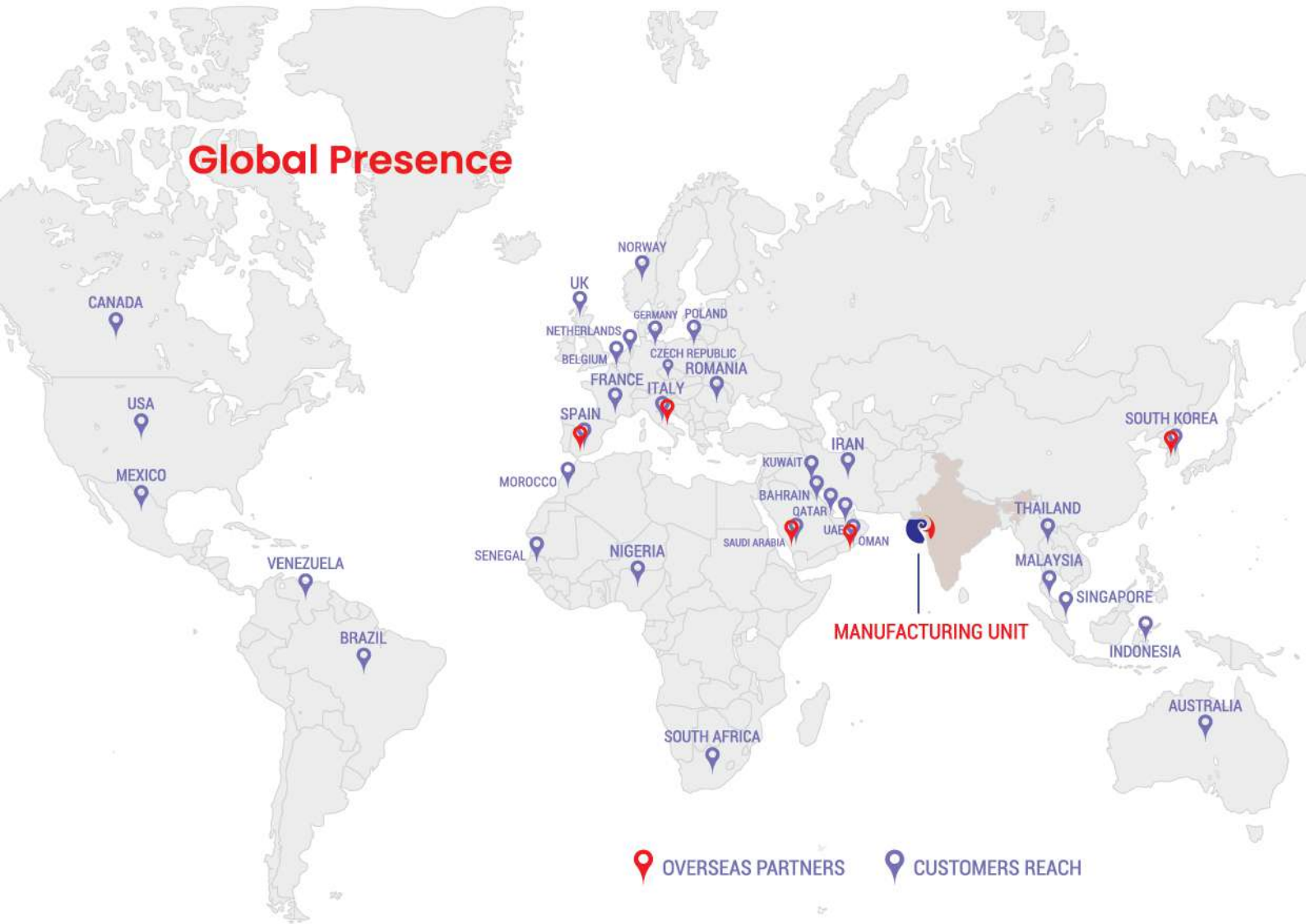


“WELL KNOWN PIPE / TUBE MAKER”
BY CENTRAL BOILERS BOARD – INDIA

Major Approvals & End Clients

- TUV
- LRQA
- DNV
- BV
- SGS
- ABS
- IRS
- GLIS
- CEIL
- PDIL
- TATA projects.Ltd.
- AKPG
- Electromech Eng.
- RITES
- Intertek
- NPCIL
- Reliance
- Qatar Energy
- EXXON MOBIL
- OQ
- SABIC
- GAIL
- GNFC
- IFFCO
- BPCL
- BHEL
- BARC
- GSFC
- CPCL
- NTPC
- HPCL
- SAIL
- IOCL
- KRIBHCO
- ONGC
- Engineers India Limited
- Thyssenkrupp
- Saipem
- Mecon Limited
- Mc Dermott
- TOYO Engineering
- Linde
- Tecnimont
- L & T
- WORLEY
- YASREF
- TAKREER
- Petrofac
- Technip
- Flour
- ISRO
- SMS
- CFCL


Global Presence



 OVERSEAS PARTNERS  CUSTOMERS REACH



RATNADEEP
METAL & TUBES LTD.

 ratnadeepmetal.com
Tap here for website

Manufacturing site:

Survey No. 1015, Village Rajpur, Taluka Kadi,
District Mehsana - 382 715, Gujarat, India.
T : +91 97243 03768
E : works@ratnadeepmetal.com

Corporate Office :

102, "Rajgiri", 196/198, Khetwadi Back Road,
Mumbai - 400 004, Maharashtra, India.
T : +91 22 2380 5700
E : info@ratnadeepmetal.com

Registered Office :

402, Sai Prasad Apartment, Usmanpura,
Ahmedabad - 380 013, Gujarat, India.
T : +91 82380 92054
E : ro@ratnadeepmetal.com



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for location