

D-U-N-S
91-735-0832

SAINEST TUBES PVT. LTD.

Precision Seamless Carbon Steel & Alloy Steel Tubes Manufacturer

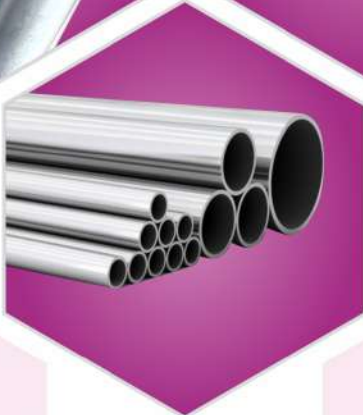
Carbon Steel &
Alloy Steel Tubes



U-bend tubes



Fin Tubes



Hydraulic Tubes



Ready to Hone
Hydraulic Cylinder Tubes

100% SOLUTIONS

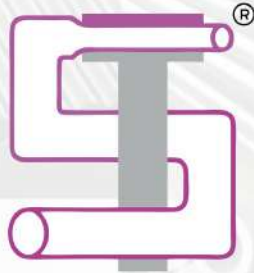
(Well known Tube / Pipe Maker under the Indian Boiler Regulations Act 1950)



www.sainest.com

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SAINEST TUBES PVT. LTD.

Precision Seamless Carbon Steel & Alloy Steel Tubes Manufacturer

● ABOUT US

SAINEST TUBES PVT. LTD. [STPL] is a leading manufacturer & exporter of Carbon steel & Alloy Steel Tubes & Pipes, established in December 1988. It is located 40 kms. away from Ahmedabad at Chhatral. Dist. Gandhinagar, Gujarat (India).

Sainest is established & managed by

- Mr. Ishwar P. Bajaj
- Mr. Parshottam C. Bellani
- Mr. Nari M. Matai
- Mr. Siddharth I. Bajaj
- Mr. Kaushal P. Bellani

**"SAINEST USES ADVANCED TECHNOLOGY,
MODERN PRODUCTION PROCESS AND
THE LATEST PLANT & MACHINERY"**

We have gained an enviable track record of growth over the years. We are determined to win patronage of discerning customers by our professional approach, to ensure that we meet all of their requirements. We are committed to consistent quality in products and services to customers at the all times. To ensure quality product & process control at all stages, we take the following steps:

1. Use of prime quality raw materials
2. Well defined process & quality control, at each stage of manufacturing
3. Upgrading technical capabilities
4. Self motivated and dedicated employees
5. Implementation of international quality managements for continual improvement

● OUR VISION

To be the Most-Responsive Supplier of World-Class Quality Steel Tubes.

● OUR MISSION

We strive to manufacture World-Class Quality Carbon & Alloy Steel Seamless Tubes & Pipes with Prompt Delivery & 100% Customer Satisfaction.

● CORE VALUES

1. Integrity
2. Excellence
3. Commitment
4. Inspiration



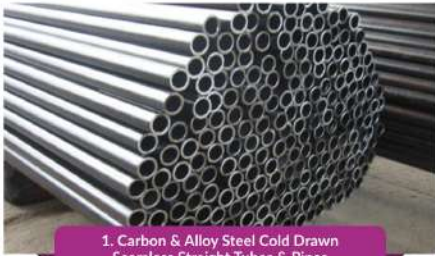
● CORE PURPOSE

To make people safe, secure, prosperous & happy by delivering unmatched world class solutions.

● OUR STRENGTHS ●

1. Better quality due to scale free tubes processed by Bright Annealing Furnace.
2. Faster deliveries and quick response for shut down jobs.
3. Certified Manufacturers: ISO 9001 (Quality), ISO 14001 (Environment), ISO 45001 (Health & Safety), TS 16949 (Automotive),
4. AD 2000-Merkblatt WO / PED (For Export to European Countries)
5. We implement lean manufacturing system principles.
6. We have controlled atmosphere furnace, hence we avoid final stage pickling of Tubes in HCL acid, which increases the life of tubes.
7. One of the biggest Cold Drawn Carbon Steel Tubes manufacturers in India.
8. We manufacture large range of seamless tubes and pipes, U-bend tubes and Fin tubes under one roof.

● PRODUCTS ●



1. Carbon & Alloy Steel Cold Drawn Seamless Straight Tubes & Pipes



2. Carbon and Alloy Steel Cold Drawn Seamless 'U' bend Tubes & Pipes



3. Bright Annealed and Semi Bright Hydraulic and Automotive Tubes



4. Aluminum Fin Tubes



5. Low Fin Tubes



6. Ready to Hone Hydraulic Cylinder Tubes

● MANUFACTURING RANGE

Diameter:	3.0 mm to 177 mm
Thickness:	0.5 mm to 15 mm
Length:	Up to 30 Mtrs.

● STANDARDS

ASTM:
A179, A192, A210 (Gr.A1/Gr.C), A333 (Gr.1/Gr.3/Gr.6), A334 (Gr.1/Gr.3/Gr.6), A106 (Gr.B), A556 (Gr.A2, B2, C2), A213 (T2, T5, T9, T11, T12, T21, T91), A209 (Gr.T1/Gr.T1a, Gr.T1b), A335 (P1, P2, P5, P9, P11, P12, P21, P22, P91), A199 (T5), A519 (4130, 4140) 13 Gr Mo44, 42 Cr Mo4

DIN:
2391(ST-35, ST-45, ST-52), 2391/C (ST-37.4, ST-52.3, ST-37.0), 73000 (ST 30 AL, ST-52), 17175 (ST-35.8, ST-45.8, 15 Mo3, 10 Cr Mo910, 13 Gr Mo44, 42 Cr Mo4)

BS:
BS-3059 Part I Gr. 320/Part II Gr. 360/Gr. 440, Gr. 620, BS-3602 PT-1 CFS 360, BS-980 (CDS-1)

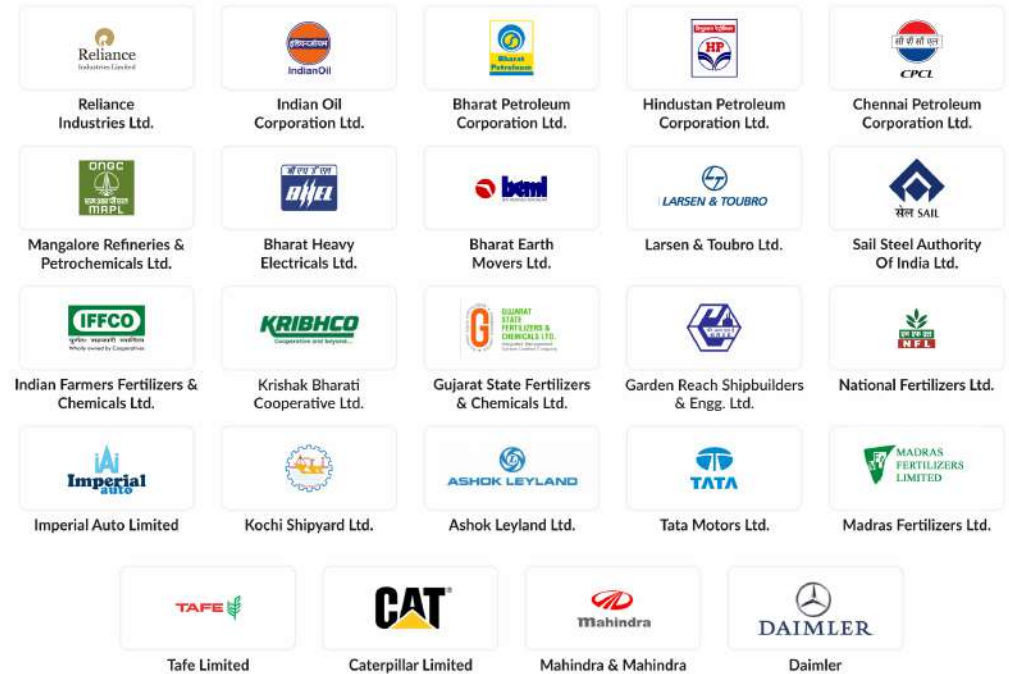
EN:
10305-1 & 10204, 10216-2, 10297-1

IS:
1239 (Heavy, Medium), 3074 (CDS1, CDS3), 3601

● MARKET SEGMENTS ●

- Oil Refineries
- Petrochemicals
- Fertilizers
- Chemicals
- Heat Exchanger Manufacturers
- Boiler Manufacturers
- Pressure Vessels Manufacturers
- Engineering
- Steel Plants
- Sugar Industry
- Automobile Manufacturers
- Hydraulics System Manufacturers
- Hydraulics Cylinder Manufacturers
- Ship Builders
- Defense
- Bearing

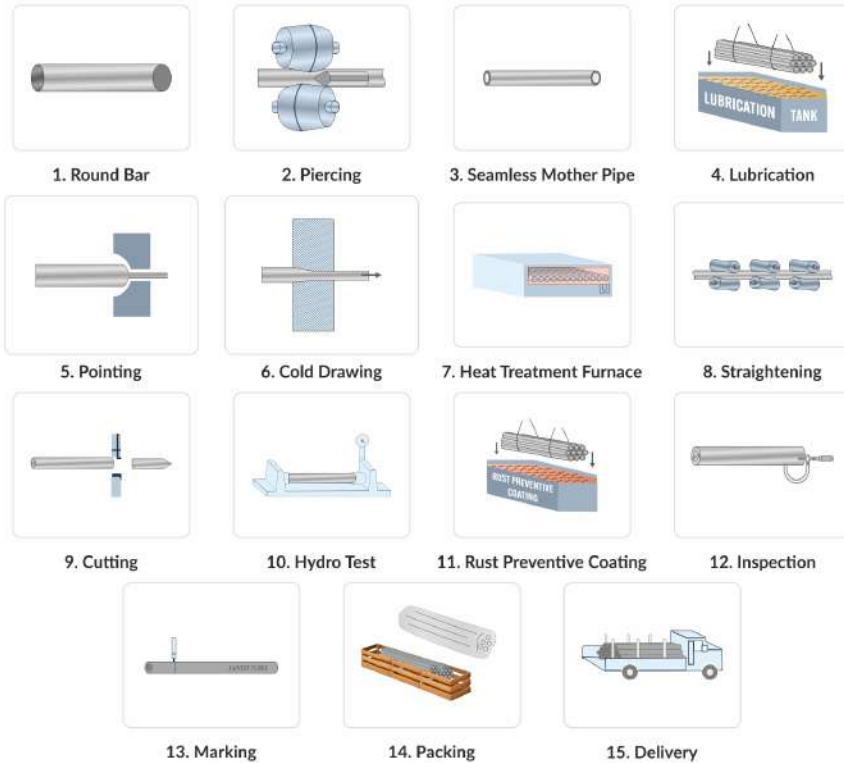
● OUR VALUED CUSTOMERS ●



● OUR INTERNATIONAL NETWORK ●



PRODUCTION PROCESS CHART



SPECIFIC PRODUCTS

U-bend Tubes

1. We are equipped with essential facilities & resources to produce U-bend tubes as well.
2. We also provide facilities of Stress Relief, D. P. Test, Eddy Current Test, Ultrasonic Test, & Air Under water test.
3. We supply U-bend tubes that are manufactured in our plant as per TEMA Class 3 RCB as per the customer's requirement. It is heat treated in accordance with specifications followed by hydro test, and dye penetrant test, if required.



Fin Tubes

Sainest Tubes Pvt. Ltd. is a leading Fin tube manufacturer and suppliers in India. We export fin tubes world wide. Finned tubes are the main component of heat exchangers. These are series of tubes where fins have been formed on the outer surface of tube to increase the contact area with the outside fluid to exchange heat between outside and inside fluids of the tube.



We manufacture different types of fin tubes such as:

1. Extruded Aluminum Fin Tubes
2. "G" Type Fin (Also called embedded Fin)
3. "L" Type Fin
4. "KL" Type Fin
5. Helically Wound High Fin Tubes
6. Integral Low fin Tubes

CERTIFICATION

- ISO 9001
- ISO 14001
- ISO 45001
- IATF 16949
- PED

* We also implement Principles of lean manufacturing systems.



● QUALITY TESTS

I. Dimension Check



To ensure the dimensional accuracy of OD, ID, Thickness, Length, Ovality etc.

II. Surface Check



To ensure that finished tubes are free from scale, pit marks rupture I.D. & O.D scores, roll marks, dent, etc.

III. Chemical Test



We use Spectrometer & PMI Machine to test the chemical composition and quality parameters of raw materials & the finished product.

IV. Mechanical Tests

1. Hardness Test



To test the hardness of the tubes.

2. Tensile Test



To check the tensile strength of the tubes.

3. Flaring Test



To check the ductility of material. End of tubes should be flared successfully without developing cracks.

4. Flattening Test



The test piece is determined acceptable if it stands the extreme specified compression stress without cracking.

5. Flange Test



The photo besides shows a test piece subjected to Flange Test as per standard.

6. Bend Test



Pipes are bent at 90° to detect if any cracks are developed.

V. NON DESTRUCTIVE TEST

1. Hydro Test



100% Hydrostatic testing is carried out to check any leakage through out the tube.

2. Eddy Current Test



To detect subsurface in homogeneities from inside & outside of tubes.

3. Ultrasonic Test



For detection of subsurface flaws and imperfections.

4. Air Under Water (Pneumatic)



This test is carried out to determine leakage in the tube.

5. Roughness Test



Roughness testing is carried out to check surface texture irregularities of the tubes and pipes.

6. Boroscope Test



Boroscope testing is a visual inspection carried out to detect narrow and minor surface defects on I.D of the tubes and pipes.

In addition to above, several other tests are carried out at the request or customers, such as micro structural examinations, grain size determination, RFET, HIC, Simulation etc. as per the specification.

● INSPECTION AGENCIES & PROJECT CONSULTANT

We are approved by all leading inspection agencies such as :



● DELIVERY PROCESS



WOODEN CREATE

BUNDLE PACKING

Chemical Composition

Specification	Type	C%	Mn%	P%	S%	Cr%	Cu%	Mo%	Ni%	Va%	Mechanical Properties			
											Tensile Strength	Yield Test	Elongation In	Hardness
				MAX	MAX						Mpa	%MIN	HRB	°C
													MAX	

STANDARD SPECIFICATION OF CARBON STEEL SEAMLESS TUBES / PIPES FOR HEAT EXCHANGER AND CONDENSER

ASTM A179	CS	0.06-0.18	0.27-0.63	0.035	0.035	-	-	-	-	-	-	325 MIN	180 MIN	35	72	-
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STANDARD SPECIFICATION OF CARBON STEEL SEAMLESS BOILER TUBES / PIPES FOR HIGH PRESSURE SERVICES

ASTM A192	CS	0.06-0.18	0.27-0.63	0.035	0.035	0.25 MAX	-	-	-	-	-	325 MIN	180 MIN	35	77	-
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STANDARD SPECIFICATION OF CARBON STEEL BOILER AND SUPER HEATER TUBES

ASTM A 210/A1	CS	0.27 MAX	0.93 MAX	0.035	0.10 MIN	-	-	-	-	-	-	415 MIN	255 MIN	30	79	-
ASTM A210/C	CS	0.35 MAX	0.29-1.06	0.035	0.10 MIN	-	-	-	-	-	-	485 MIN	275 MIN	30	89	-

STANDARD SPECIFICATION OF CARBON STEEL PIPES FOR LOW TEMP. SERVICES

ASTM A333/1	CS	0.30 MAX	0.40-1.06	0.025	0.025	-	-	-	-	-	-	380 MIN	205 MIN	35	85	-45°C
ASTM A333/6	CS	0.30 MAX	0.29-1.06	0.025	0.10 MIN	-	-	-	-	-	-	415 MIN	240 MIN	30	90	-45°C
ASTM A334/1	CS	0.30 MAX	0.40-1.06	0.025	-	-	-	-	-	-	-	380 MIN	205 MIN	35	85	-45°C
ASTM A334/6	CS	0.30 MAX	0.29-1.06	0.025	0.10 MIN	-	-	-	-	-	-	415 MIN	240 MIN	30	90	-45°C
ASTM A334/3	AS	0.19 MAX	0.31-0.64	0.025	0.18-0.37	-	-	-	3.18-3.82	-	-	450MIN	240MIN	30	90	-100°C

STANDARD SPECIFICATION FOR CARBON / ALLOY STEEL SEAMLESS TUBES FOR BOILER AND SUPER HEATER

BS 3059/1/320	CS	0.16 MAX	0.30-0.70	0.050	0.050	-	-	-	-	-	-	320-480	195 MIN	25	-	-
BS 3059/2/360	CS	0.17 MAX	0.40-0.80	0.045	0.35 MAX	-	-	-	-	-	-	360-500	215 MIN	24	-	-
BS 3059/2/440	CS	0.12-0.18	0.90-1.20	0.040	0.10-0.35	-	-	-	-	-	-	440-560	245 MIN	21	-	-
BS 3059/2/620	AS	0.12-0.15	0.40-0.70	0.040	0.10-0.35	0.70-1.10	-	0.45-0.65	-	-	-	460-610	180 MIN	22	-	-
BS 3059/2/622	AS	0.08-0.15	0.40-0.70	0.040	0.10-0.35	2.00-2.50	-	0.90-1.20	-	-	-	490-640	275 MIN	20	-	-

STANDARD SPECIFICATION OF CARBON STEEL SEAMLESS TUBES / PIPES FOR HIGH TEMPERATURE SERVICES

ASTM A 53/A	CS	0.25 MAX	0.95 MAX	0.050	0.060	-	-	-	-	-	-	330 MIN	205 MIN	36	-	-
ASTM A 53/B	CS	0.30 MAX	1.20 MAX	0.050	0.060	-	-	-	-	-	-	415 MIN	240 MIN	29.5	-	-
ASTM A 106/A	CS	0.25 MAX	0.27-0.93	0.035	0.10 MIN	0.40 MAX	0.40 MAX	0.15 MAX	0.4 MAX	0.08 MAX	-	330 MIN	205 MIN	35	-	-
ASTM A 106/B	CS	0.30 MAX	0.29-1.06	0.035	0.10 MIN	0.40 MAX	0.40 MAX	0.15 MAX	0.4 MAX	0.08 MAX	-	415 MIN	240 MIN	30	-	-
ASTM A 106/C	CS	0.35 MAX	0.29-1.06	0.035	0.10 MIN	0.40 MAX	0.40 MAX	0.15 MAX	0.4 MAX	0.08 MAX	-	485 MIN	275 MIN	30	-	-

STANDARD SPECIFICATION FOR SEAMLESS CARBON-MOLYBDENUM ALLOY-STEEL BOILER AND SUPER HEATER TUBES

ASTM A209/T1	AS	0.10-0.20	0.30-0.80	0.025	0.10-0.50	-	-	0.44-0.65	-	-	-	380 MIN	205 MIN	30	80	-
ASTM A209/T1a	AS	0.15-0.25	0.30-0.80	0.025	0.10-0.50	-	-	0.44-0.65	-	-	-	365 MIN	195 MIN	30	81	-
ASTM A209/T1b	AS	0.14 MAX	0.30-0.80	0.025	0.10-0.50	-	-	0.44-0.65	-	-	-	415 MIN	220 MIN	30	77	-

STANDARD SPECIFICATION FOR ALLOY STEEL BOILER AND SUPER HEATER TUBES

ASTM A213/T2	AS	0.10-0.20	0.30-0.61	0.025	0.025	0.10-0.30	0.50-0.81	-	0.44-0.65	-	-	415 MIN	205 MIN	30	85	-
ASTM A213/T5	AS	0.15 MAX	0.30-0.60	0.025	0.025	0.50 MAX	4.00-6.00	-	0.45-0.65	-	-	415 MIN	205 MIN	30	85	-
ASTM A213/T11	AS	0.05-0.15	0.30-0.60	0.025	0.025	0.50-1.0	1.00-1.50	-	0.44-0.65	-	-	415 MIN	205 MIN	30	85	-
ASTM A213/T12	AS	0.05-0.15	0.30-0.61	0.025	0.025	0.50 MAX	0.80-1.25	-	0.44-0.65	-	-	415 MIN	220 MIN	30	85	-
ASTM A213/T22	AS	0.05-0.15	0.30-0.60	0.025	0.025	0.50 MAX	1.90-2.60	-	0.87-1.13	-	-	415 MIN	205 MIN	30	85	-
ASTM A 213/T9	AS	0.15 MAX	0.30-0.60	0.025	0.025	0.25-1.0	8.00-10.0	-	0.90-1.10	-	-	415 MIN	205 MIN	30	89	-
ASTM A213/T91	AS	0.07-0.14	0.30-0.60	0.020	0.010	0.20-0.50	8.0-9.50	-	0.85-1.05	0.4	0.18-0.25	585 MIN	415 MIN	30	90	-

STANDARD SPECIFICATION OF CARBON STEEL BOILER AND SUPER HEATER TUBES

ASTM A335/P1	AS	0.10-0.20	0.30-0.80	0.025	0.025	0.10-0.50	-	-	0.44-0.65	-	-	380 MIN	205 MIN	30	-	-
ASTM A335/P2	AS	0.10-0.20	0.30-0.61	0.025	0.025	0.10-0.30	0.50-0.81	-	0.44-0.65	-	-	415 MIN	205 MIN	30	-	-
ASTM A335/P5	AS	0.15 MAX	0.30-0.60	0.025	0.025	0.50 MAX	4.00-6.00	-	0.45-0.65	-	-	415 MIN	205 MIN	30	-	-
ASTM A335/P11	AS	0.05-0.15	0.30-0.60	0.025	0.025	0.50-1.0	1.00-1.50	-	0.44-0.65	-	-	415 MIN	205 MIN	30	-	-
ASTM A335/P12	AS	0.05-0.15	0.30-0.61	0.025	0.025	0.50 MAX	0.80-1.25	-	0.44-0.65	-	-	415 MIN	220 MIN	30	-	-
ASTM A335/P22	AS	0.05-0.15	0.30-0.60	0.025	0.025	0.50 MAX	1.90-2.60	-	0.87-1.13	-	-	415 MIN	205 MIN	30	-	-

STANDARD SPECIFICATION FOR SEAMLESS CARBON / ALLOY STEEL TUBES FOR BOILER, PIPELINES, PRESSURE VESSEL FOR TEMPERATURE UP TO 600 DEG C

DIN17175/ST35.8	CS	0.17 MAX	0.40-0.80	0.040	0.040	0.10-0.35	-	-	-	-	-	340-441	235 MIN	25	-	-
DIN17175/ST45.8	CS	0.21 MAX	0.40-1.20	0.040	0.040	0.10-0.35	-	-	-	-	-	441-540	235 MIN	25	-	-
DIN17175/15 Mo3	AS	0.12-0.20	0.40-0.80	0.035	0.035	0.10-0.35	-	0.25-0.35	-	-	-	441-540	285 MIN	21	-	-
DIN17175/13CrMo44	AS	0.10-0.18	0.40-0.70	0.035	0.035	0.10-0.35	0.7-1.10	-	0.45-0.65	-	-	441-570	294 MIN	22	-	-
DIN17175/10CrMo910	AS	0.15-MAX	0.40-0.80	0.035	0.035	0.10-0.35	2.0-2.50	-	0.90-1.10	-	-	441-590	265 MIN	20	-	-

STANDARD SPECIFICATION FOR SEAMLESS CARBON STEEL TUBES

JIS 3445 STKM 11A	CS	0.12-MAX	0.60 MAX	0.040	0.040	0.35 MAX	-	-	-	-	-	294 MIN	-	35	-	-
JIS 3445 STKM 12A	CS	0.20 MAX	0.60 MAX	0.040	0.040	0.35 MAX	-	-	-	-	-	344 MIN	177 MIN	35	-	-
JIS 3445 STKM 12B	CS	0.20 MAX	0.60 MAX	0.040	0.040	0.35 MAX	-	-	-	-	-	393 MIN	274 MIN	25	-	-
JIS 3445 STKM 12C	CS	0.20-MAX	0.60 MAX	0.040	0.040	0.35 MAX	-	-	-	-	-	470 MIN	353 MIN	20	-	-
JIS 3445 STKM 13B	CS	0.25 MAX	0.30-0.90	0.040	0.040	0.35 MAX	-	-	-	-	-	442 MIN	304 MIN	20	-	-
JIS 3445 STKM 13C	CS	0.25 MAX	0.30 MAX	0.040	0.040	0.35 MAX	-	-	-	-	-	373 MIN	216 MIN	30	-	-

Leading Manufacturers of Carbon & Alloy Steel Seamless Tubes & Pipes in India

- SAINEST TUBES PVT. LTD.



● REGD. OFFICE

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✉ info@sainest.com

📍 A-404, S G Business Hub, Nr. Gota Overbridge,
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● MANUFACTURING PLANT

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