



Manufacturer & Exporters of Stainless Steel Seamless & Welded Pipes, Tubes & 'U' Tubes



QMS 9001



Govt. Recognised Export House



Since our inception, We are holistically following the principle "PipeLine is our Life Line" & we are continuously building core competency in pipe making. Our manufacturing facilities employees state of art technology to produce a wide ranges of stainless steel Seamless, Welded Pipes, Tubes & 'U' Tubes. Constant innovative spirits that wants to improve the quality & efficiency of their production drives Shubhlaxmi

Shubhlaxmi's premises span over a 427,188 Sq. Ft area in Umbergaon (Gujarat) about 150kms from Mumbai airport out of which 132,000 Sq. Ft are covered by Industrial building & 7828 Sq. Ft is office & service building. The company headquarter is based in Mumbai.

Our main rule is the safeguard of a quality production, and to this end we have introduced a fully controlled working process that requires the respecting of very strict parameters. Loyal to this requirement, we have obtained the ISO 9001:2008, ISO 14001:2004, PED 97/23/EC, AD 2000 Merkblatt W0 & Govt. Recognised Export House certifications which through a cautious and meticulous business management are able to offer a satisfactory service even to the most demanding customer.

In short span of time we have become a leading manufacturer in domestic market. We specializes in customizing the product & design as per the client requirement. Our strict adherence to quality norms, a details checking of the product quality, constant tabs on the latest updates in stainless steel technology are some of the features of the company that sets up class apart.

Our Vision

We will walk to horizon. And shall continue consolidating our position as the pathfinder of cutting edge technologies and solution, till we become global leader in every chosen field. We shall continue to be first in identifying & addressing customer's needs and keep exceeding expectation of our customers.

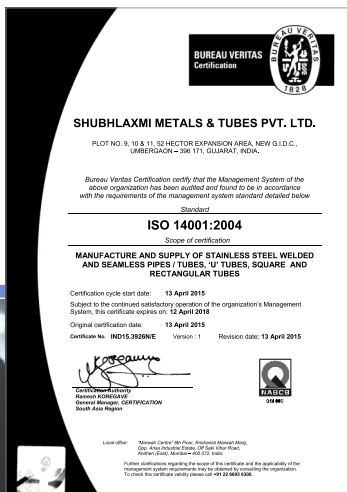
Our Mission

To be proactive Organization in Manufacturing and Supplying Quality product not only to meet but to exceed our customer requirement and thereby ensuring customers satisfaction. We have futuristic approach in our endeavour, with a name to achieve excellence in every sphere of activity.

We follow Quality, Rest Follow Us.

"Quality First" is not an overrated terms, but Mantra that has brought success to us. Even during rough terrians in company's history it worked as compass to future. We dedicate to our Quality system which we implement & sustain.

EMS 14001



PED 2014 / 68 / EU



AD 2000 MERKBLATT W0



OHSAS 18001:2007





Seamless Pipes & Tubes

Seamless Pipes Tubes & 'U' Tubes are manufactured from Mother hollow pipes with the processing on cold pilgering machine, cold drawn benches, Heat Treatment furnace, 'U' bending facilities, Tube finishing lines including pickling, tube straightners, end facing, cut-to-length facilities and Various destructive and non-destructive tests to produce high quality product Confirming to International Standard.

Product Range

| PRODUCT | SIZE | THICKNESS | SPECIFICATION |
|---------|-------------------|----------------------------|--|
| PIPES | 1/8" NB TO 12" NB | SCH.5, 10, 40/S, 80/S, 160 | ASTM A-312, ASTM A-790, EN 10216-5 & Its Equivalent ASME, DIN & EN Standard |
| TUBES | 6.35 mm To 102 mm | 0.50 mm TO 7.0 mm | ASTM A-213, A-268, A-269, A-270, A-789, EN 10216-5 & Its Equivalent ASME, DIN & EN Standard. |

AUSTENITIC GRADES : 304/L/H/LN, 316/L/H/LN/Ti, 317L, 321/H, 347/H, 309, 310/S, 904L

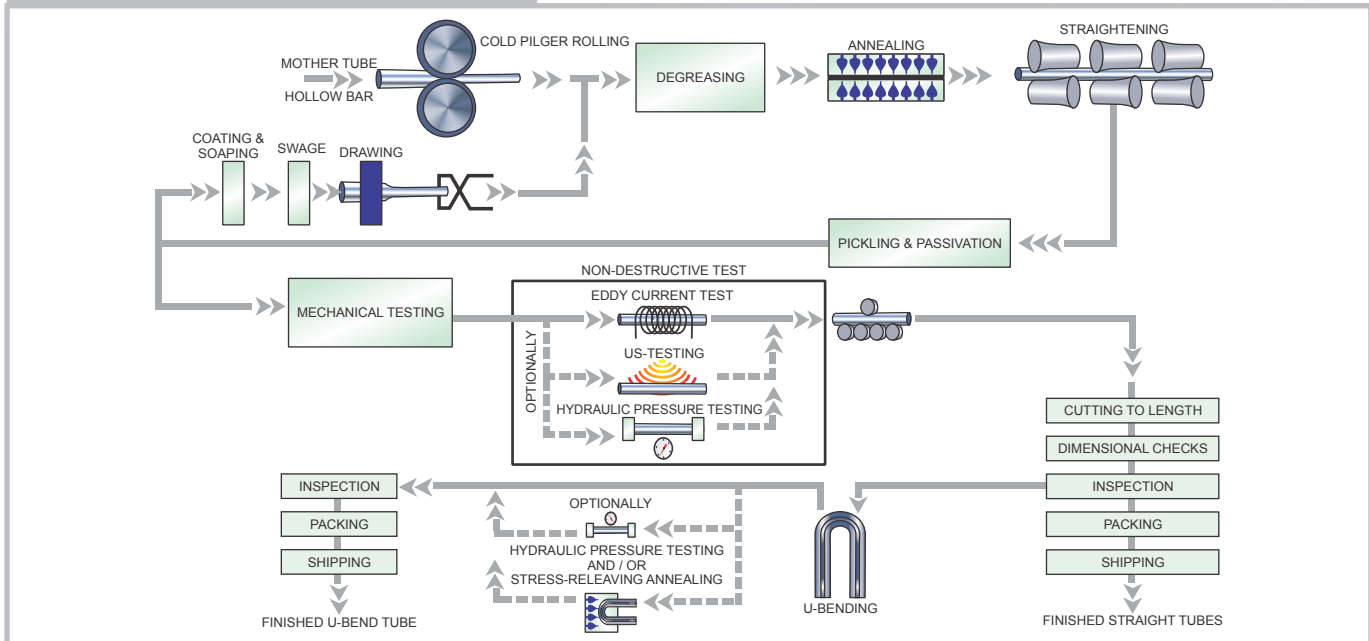
FERRITIC & MARTENSITIC GRADES : 405, 410, 430/Ti,

DUPLEX STAINLESS STEEL : UNS 31803, 32205, 32750, 31500

LENGTH : As per Customer requirement, Maximum upto 22 Meter Long.

FINISHING : Tubes can be supplied in mechanical polished with various grits like at 80, 120, 240, 320, 400, 600 grit and mirror polished.

Process flow chart



Cold Pilger Mill

Annealing Furnace

Welded Pipes & Tubes

Shubhlaxmi's Stainless steel welded Pipes & Tubes division consist of Tube Mills, Bead Removing machines, Cold Drawing Benches, 'U' Bending Machine, Roller hearth Heat Treatment Furnace for solution annealing Tube finishing lines including pickling, tube straightening, end facing, cut-to-length facilities, and Various destructive and non-destructive tests to produce high quality product Confirming to International Standard.

These facilities are capable of manufacturing per annum 4500 Tones of Stainless Steel Welded Pipes & Tubes of various Austenitic Ferritic & Duplex Steel.

Product Range

| PRODUCT | SIZE | THICKNESS | SPECIFICATION |
|---------|-------------------------------------|----------------------------------|---|
| PIPES | 1/8" NB TO 1" NB 1" NB to 12" NB | Sch.5, 10, 40S Sch.5, 10, 40s | ASTM A-312, A-554, A-778, A-790, En 10217-7 & Its Equivalent ASME, DIN & EN Standard |
| TUBES | 6.35 mm To 102 mm OD | 0.50 mm TO 7.0 mm | ASTM A-249, A-268, A-269, A-270, A-554, A-688, A-778, A-789, IS 13316:92, EN 10217-7 & Its Equivalent ASME, DIN & EN Standard |

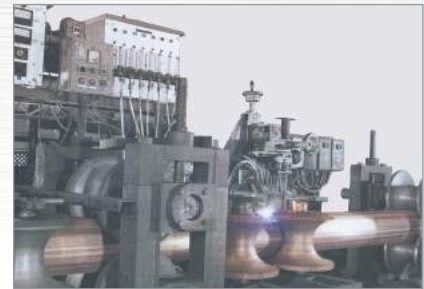
AUSTENITIC GRADES : 304/L/H/LN, 316/L/H/LN/Ti, 317L, 321/H, 347/H, 309, 310/S, 904L

FERRITIC & MARTENSITIC GRADES : 409/L/M, 410, 430/Ti, 436, 439, 441

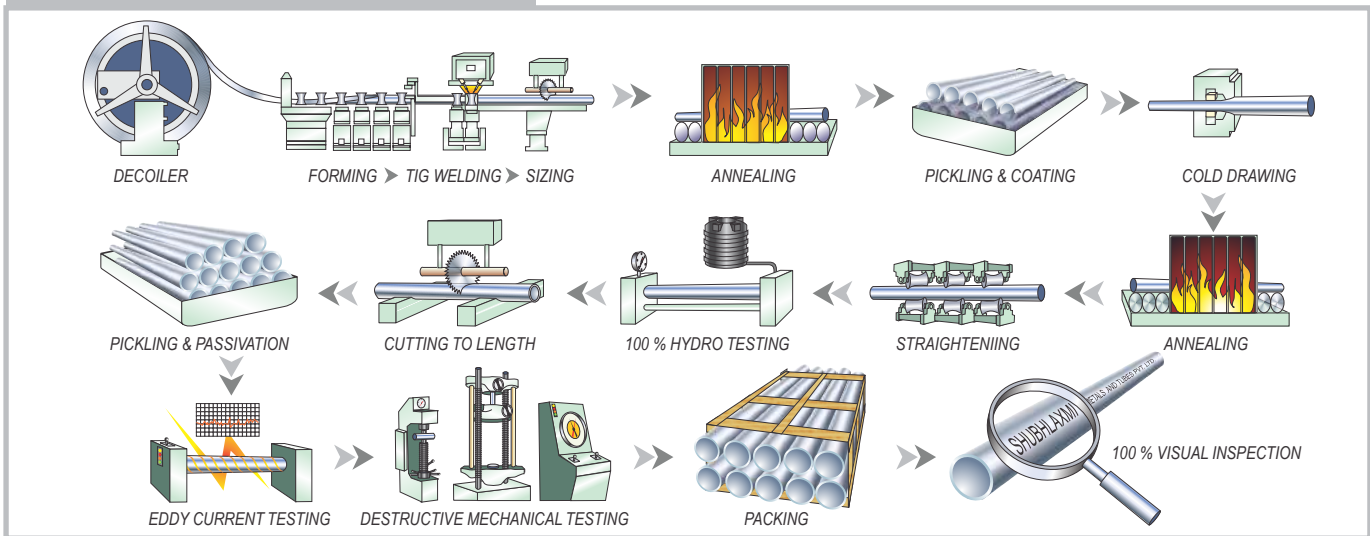
DUPLEX STAINLESS STEEL : UNS 31803, 32205, 32750, 31500, 32101

LENGTH : As per Customer requirement, Maximum upto 22 Meter Long.

FINISHING : Tubes can be supplied in mechanical polished with various grits like at 80, 120, 240, 320, 400, 600 grit and mirror polished.



Process flow chart





'U' Tubes

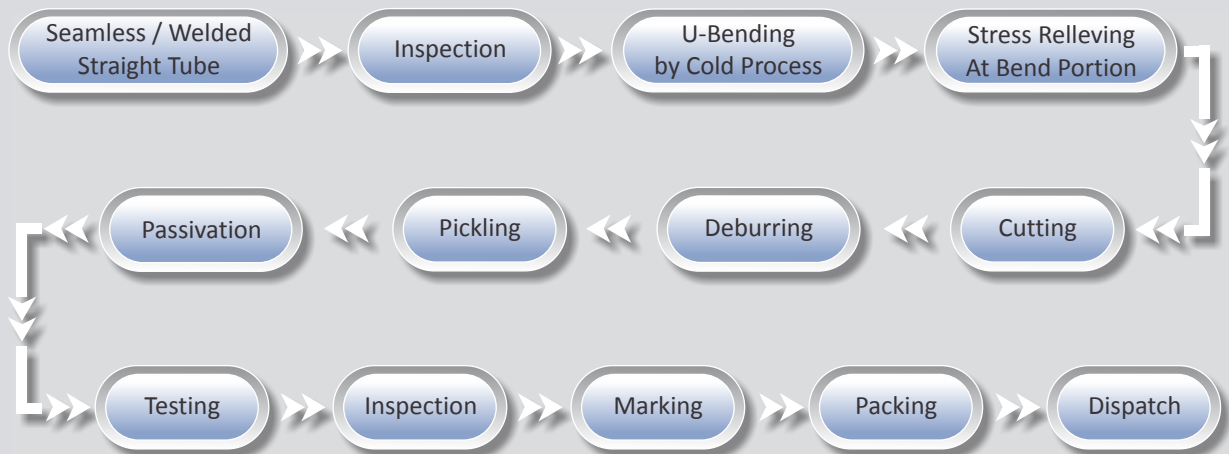
In addition to the production of Straight Stainless Steel Tubes, Shubhlaxmi Manufactures 'U' Tubes for use in Heat Exchanger, Condensors, Pre-Heaters & Various other equipments.

The manufacturing of 'U' Tubes takes place in a separate Shop, adjacent to the tube mill, on SHUBHLAXMI premises by utilizing bending equipment that is used exclusively for stainless tube bending as per drawing & specification given by customer. In the process bending portion & six inch leg is stress relieved by resistance heating & to avoid oxidation in ID argon gas is passed in side through the required flow rate.

All the procedure is strictly followed as per TEMA 'RCB' 2.3 & ASTM A-688.



Manufacturing Process Flowchart for U-Tubes



Stainless Steel Section Tubes

Product Range

| PRODUCT | SIZE | THICKNESS | SPECIFICATION |
|-------------------|-------------------------------------|-------------------|--|
| SQUARE TUBES | 10 mm X 10 mm To 120 mm X 120 mm | 1.00 mm TO 6.0 mm | ASTM A-554 & Its Equivalent ASME, DIN & EN Standard |
| RECTANGULAR TUBES | 10 mm X 20 mm To 60 mm X 120 mm | 1.00 mm TO 6.0 mm | ASTM A-554 & Its Equivalent ASME, DIN & EN Standard |

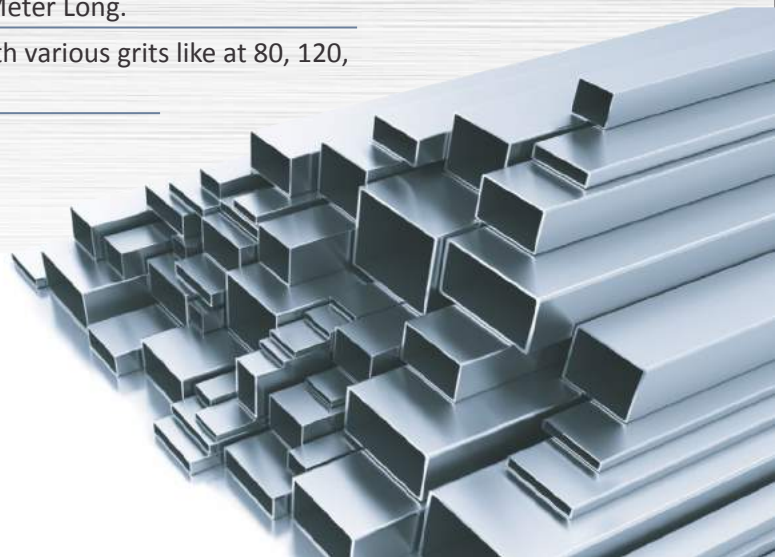
AUSTENITIC GRADES : 304/L/H/LN, 316/L/HLN/Ti, 317L, 321/H, 347/H, 309, 310/S, 904L

FERRITIC & MARTENSITIC GRADES : 409/L, 410, 430/Ti, 436, 439, 409M

DUPLEX STAINLESS STEEL : UNS 31803, 32205, 32750, 31500, Lean Duplex 32101

LENGTH : As per Customer requirement, Maximum upto 12 Meter Long.

FINISHING : Tubes can be supplied in mechanical polished with various grits like at 80, 120, 240, 320, 400, 600 grit and mirror polished.



Stainless Steel Corrugated Tubes

Stainless steel Corrugated can be manufactured and supplied in seamless and welded tubes.

Corrugated tubes increase the turbulence in the flow that enables a more effective mixing and agitation that generates a higher heat transfer coefficient compared to smooth tubes at the same conditions.



Application



Heat Exchanger & Condenser

LP / HP Heaters

Oil & Gas Industry

Power Plants

Fertilizer Plants

Refinery & Petrochemicals

Chemical & Pharmaceutical

Railways

Furniture

Dairy & Food Industries

Sanitary & Plumbing

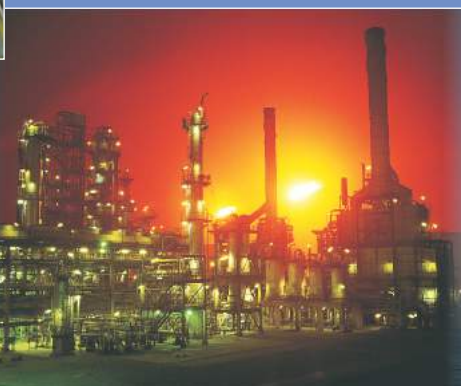
Instrumentation

Textile Industry

Ship Building

Paper & Pulp

General Engineering



Shubhlaxmi is regularly certified by TUV according to the standard ISO 9001:2008 on the overall management of the working process.

We have various product certificate which allow us to offer high quality for the most specific needs, like being qualified suppliers of PED 97/23/EC, AD 2000 MERKBLATT W0 by "TUV Nord"

Our real strength lies in quality control, We have an exhaustive quality assurance facility to test each & every product that leaves the factory the company has the latest manufacturing & testing equipment of world class Standard & Equally qualified and experienced personnel to manage the inspection at various level.

Chemical Testing :

As per the code / standard requirement chemical analysis is carried out, on Spectrometer of Spectro max (Germany) in our own laboratory.

Mechanical Testing :

Tensile testing, Hardness, Flaring, Flanging, Flattening, Reverse bend , reverse flattening test according to the code / standard are regularly carried out.

Hydro Test :

100% hydro testing on a hydraulic test bench is carried out using a high-pressure pump on all pipes & tubes, as per the code / standard.

Air Under Water Test/Pneumatic Test :

Even though this is a supplementary requirement, the company has made a point to test all the tubes coming out of a factory to be tested under compressed air to determine any leakage ensuring ultimately that there is no incomplete weld penetrations.

Eddy-Current Testing :

It is conducted to detect any sub surface defect etc. This test is carried out by using Techno four flaw marking detective system on the entire length of the tubes as per the code / standard with hole or notch standard, with Automatic Segregation System.

Micro Structure Examination / Analyser Software :

Shubhlaxmi has the facility to measure ferrite content, Microscope helps to check the grain structure of Pipes & Tubes after annealing process. The above microscope is attached with analyzer software, which automatically indicates grain structure without manual intervention. Microstructure examination is carried out as per the code / standard.

Hardness Tester :

Hardness tester is used to check the surface hardness of material with the help of Rockwell Brinell scale on 30T scale. Above test is carried out as per the code / standard.

Corrosion Testing :

To find out the susceptibility of the material to intergranular corrosion attack or to measure rate of corrosion, IGC test as the code / standard practice "A", "B", "C" or "E" in our fully equipped in house laboratory.

Chemical Laboratory :

Shubhlaxmi has in-house fully equipped laboratory to check, chloride content in water, Daily pickling, passivation, coating & soaping bath analysis.

Radiography Testing :

The company can provide radiography testing facilities with an X- Ray unit.

Ultrasonic Testing :

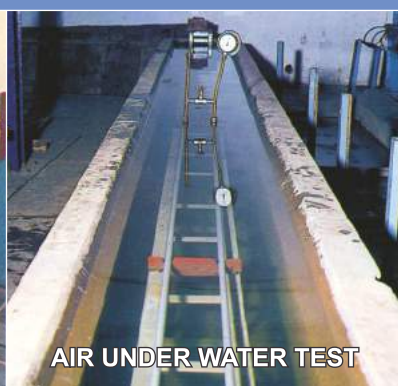
Shubhlaxmi has an off-line ultrasonic Testing facility having four-probe water emulsion system with a microprocessor unit to detect special process flow. In addition to above, the system can mark the defect by spraying.



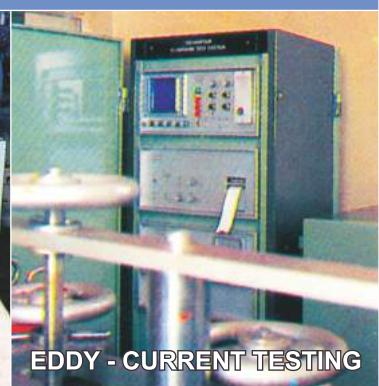
HYDRO TEST



MECHANICAL TESTING



AIR UNDER WATER TEST



EDDY - CURRENT TESTING



Size Range



Stainless Steel Pipe: Dimension and Weights

| Nominal Pipe size | Outside Diameter | | Sch - 5 Wt - Thick | | Sch - 10S Wt - Thick | | Sch - 10 Wt - Thick | | Sch - 20 Wt - Thick | | Sch - 40S Wt - Thick | | Sch - 80 Wt - Thick | | Sch - 160 Wt - Thick | | |
|-------------------|------------------|---------------|--------------------|-------------|----------------------|-------------|---------------------|--------------|---------------------|--------------|----------------------|-------------|---------------------|--------------|----------------------|---|---|
| | (mm) (inch) | (inch) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | (mtr.) (mm) | | |
| 6 | 1/8" | 0.405 10.29 | 0.22 0.89 | 0.28 1.24 | - | - | 0.36 1.73 | 0.47 2.41 | - | - | 0.36 1.73 | 0.47 2.41 | - | - | | | |
| 8 | 1/4" | 0.540 13.72 | 0.39 1.25 | 0.49 1.65 | - | - | 0.63 2.24 | 0.80 3.02 | - | - | 0.63 2.24 | 0.80 3.02 | - | - | | | |
| 10 | 3/8" | 0.675 17.15 | 0.50 1.25 | 0.63 1.65 | - | - | 0.84 2.31 | 1.10 3.20 | - | - | 0.84 2.31 | 1.10 3.20 | - | - | | | |
| 15 | 0.5" | 0.840 21.34 | 0.80 1.65 | 1.00 2.11 | - | - | 1.27 2.77 | 1.62 3.73 | 1.95 4.78 | - | 1.27 2.77 | 1.62 3.73 | 1.95 4.78 | - | - | | |
| 20 | 3/4" | 1.050 26.67 | 1.02 1.65 | 1.28 2.11 | - | - | 1.68 2.87 | 2.19 3.91 | 2.89 5.56 | - | 1.68 2.87 | 2.19 3.91 | 2.89 5.56 | - | - | | |
| 25 | 1" | 1.315 33.40 | 1.29 1.65 | 2.09 2.77 | - | - | 2.50 3.38 | 3.23 4.55 | 4.23 6.35 | - | 2.50 3.38 | 3.23 4.55 | 4.23 6.35 | - | - | | |
| 32 | 1-1/4" | 1.660 42.16 | 1.65 1.65 | 2.69 2.77 | - | - | 3.38 3.56 | 4.46 4.85 | 5.60 6.35 | - | 3.38 3.56 | 4.46 4.85 | 5.60 6.35 | - | - | | |
| 40 | 1-1/2" | 1.900 48.26 | 1.90 1.65 | 3.10 2.77 | - | - | 4.05 3.68 | 5.40 5.08 | 7.23 7.14 | - | 4.05 3.68 | 5.40 5.08 | 7.23 7.14 | - | - | | |
| 50 | 2" | 2.375 60.33 | 2.39 1.65 | 3.93 2.77 | - | - | 5.44 3.91 | 7.48 5.54 | 11.11 8.74 | - | 5.44 3.91 | 7.48 5.54 | 11.11 8.74 | - | - | | |
| 65 | 2-1/2" | 2.875 73.03 | 3.68 2.11 | 5.26 3.05 | - | - | 8.62 5.16 | 11.40 7.01 | 14.80 9.53 | - | 8.62 5.16 | 11.40 7.01 | 14.80 9.53 | - | - | | |
| 80 | 3" | 3.500 88.90 | 4.51 2.11 | 6.45 3.05 | - | - | 11.27 5.49 | 15.25 7.62 | 21.31 11.13 | - | 11.27 5.49 | 15.25 7.62 | 21.31 11.13 | - | - | | |
| 90 | 3-1/2" | 4.000 101.60 | 5.17 2.11 | 7.40 3.05 | - | - | 13.56 5.74 | 18.60 8.08 | -- -- | - | 13.56 5.74 | 18.60 8.08 | -- -- | - | - | | |
| 100 | 4" | 4.500 114.30 | 5.83 2.11 | 8.35 3.05 | - | - | 16.06 6.02 | 22.29 8.56 | 33.50 13.49 | - | 16.06 6.02 | 22.29 8.56 | 33.50 13.49 | - | - | | |
| 125 | 5" | 5.563 141.30 | 9.45 2.77 | 11.56 3.40 | - | - | 21.76 6.55 | 30.93 9.53 | 49.05 15.88 | - | 21.76 6.55 | 30.93 9.53 | 49.05 15.88 | - | - | | |
| 150 | 6" | 6.625 168.28 | 11.29 2.77 | 14.04 3.40 | - | - | 28.23 7.11 | 42.52 10.97 | 67.49 18.26 | - | 28.23 7.11 | 42.52 10.97 | 67.49 18.26 | - | - | | |
| 200 | 8" | 8.625 219.08 | 14.99 2.77 | 20.26 3.76 | - | - | 33.81 6.35 | 42.49 8.18 | 64.60 12.70 | 111.16 23.01 | - | 33.81 6.35 | 42.49 8.18 | 64.60 12.70 | 111.16 23.01 | - | - |
| 250 | 10" | 10.750 273.05 | 22.97 3.40 | 28.20 4.19 | - | - | 42.38 6.35 | 61.20 9.27 | 96.10 15.09 | 175.10 28.58 | - | 42.38 6.35 | 61.20 9.27 | 96.10 15.09 | 175.10 28.58 | - | - |
| 300 | 12" | 12.750 323.05 | 33.53 3.96 | 36.53 4.57 | - | - | 50.45 6.35 | 74.92 9.53 | 132.10 17.48 | 238.52 33.32 | - | 50.45 6.35 | 74.92 9.53 | 132.10 17.48 | 238.52 33.32 | - | - |
| 350 | 14" | 14.000 355.63 | -- -- | 41.41 4.78 | 54.77 6.35 | 68.01 7.92 | 81.46 9.53 | 157.95 19.05 | 281.43 35.71 | - | 54.77 6.35 | 68.01 7.92 | 81.46 9.53 | 157.95 19.05 | 281.43 35.71 | - | - |
| 400 | 16" | 16.000 406.40 | -- -- | 47.41 4.78 | 62.74 6.35 | 77.95 7.92 | 93.41 9.53 | 203.53 21.44 | 364.99 40.49 | - | 62.74 6.35 | 77.95 7.92 | 93.41 9.53 | 203.53 21.44 | 364.99 40.49 | - | - |
| 450 | 18" | 18.000 457.20 | -- -- | 53.41 4.78 | 70.71 6.35 | 87.88 7.92 | 105.37 9.53 | 254.37 23.80 | 459.13 45.24 | - | 70.71 6.35 | 87.88 7.92 | 105.37 9.53 | 254.37 23.80 | 459.13 45.24 | - | - |
| 500 | 20" | 20.000 508.00 | -- -- | 68.75 5.54 | 78.68 6.35 | 117.33 9.53 | 117.33 9.53 | 310.85 26.19 | 564.30 50.01 | - | 78.68 6.35 | 117.33 9.53 | 117.33 9.53 | 310.85 26.19 | 564.30 50.01 | - | - |
| 550 | 22" | 22.000 558.80 | -- -- | -- -- | 86.64 6.35 | 129.29 9.53 | 129.29 9.53 | -- -- | -- -- | - | 86.64 6.35 | 129.29 9.53 | 129.29 9.53 | -- -- | -- -- | - | - |
| 600 | 24" | 24.000 609.60 | -- -- | 94.37 6.35 | 94.61 6.35 | 141.25 9.53 | 141.25 9.53 | 441.39 30.96 | 806.93 59.5 | - | 94.61 6.35 | 141.25 9.53 | 141.25 9.53 | 441.39 30.96 | 806.93 59.5 | - | - |



Rectangular tube dimensions Theoretical weight in kg/mtr

| Dimensions | | 1.0 mm | 1.2 mm | 1.5 mm | 2.0 mm | 2.5 mm | 3.0 mm | 3.5 mm | 4.0 mm |
|------------|----|------------|------------|------------|------------|------------|------------|------------|------------|
| mm | mm | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter |
| 20 | 10 | 0.453 | 0.539 | 0.661 | - | - | - | - | - |
| 25 | 15 | 0.610 | 0.724 | 0.890 | - | - | - | - | - |
| 30 | 10 | 0.610 | 0.724 | 0.890 | - | - | - | - | - |
| 30 | 20 | 0.771 | 0.917 | 1.129 | 1.475 | - | - | - | - |
| 40 | 20 | 0.931 | 1.108 | 1.371 | 1.795 | - | - | - | - |
| 50 | 20 | 1.081 | 1.302 | 1.612 | 2.115 | - | - | - | - |
| 50 | 25 | 1.170 | 1.398 | 1.734 | 2.275 | - | - | - | - |
| 50 | 30 | - | 1.494 | 1.852 | 2.434 | 3.003 | 3.502 | - | - |
| 60 | 30 | - | 1.687 | 2.090 | 2.756 | 3.405 | 4.040 | - | - |
| 60 | 40 | - | 1.878 | 2.332 | 3.078 | 3.806 | 4.533 | - | - |
| 80 | 40 | - | - | 2.815 | 3.724 | 4.612 | 5.494 | 6.359 | 7.267 |



Square tube dimensions Theoretical weight in kg/mtr

| Dimensions | | 1.0 mm | 1.2 mm | 1.5 mm | 2.0 mm | 2.5 mm | 3.0 mm | 3.5 mm | 4.0 mm | 4.0 mm |
|------------|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| mm | mm | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter | Kg / meter |
| 10 | 10 | 0.294 | - | - | - | - | - | - | - | - |
| 15 | 15 | 0.453 | 0.538 | 0.661 | - | - | - | - | - | - |
| 20 | 20 | 0.610 | 0.724 | 0.890 | 1.159 | - | - | - | - | - |
| 25 | 25 | 0.772 | 0.917 | 1.129 | 1.475 | - | - | - | - | - |
| 30 | 30 | 0.932 | 1.108 | 1.371 | 1.795 | 2.203 | 2.643 | - | - | - |
| 35 | 35 | 1.081 | 1.302 | 1.612 | 2.115 | 2.604 | 3.124 | - | - | - |
| 40 | 40 | 1.251 | 1.495 | 1.852 | 2.434 | 3.003 | 3.562 | - | - | - |
| 50 | 50 | - | 1.882 | 2.332 | 3.078 | 3.806 | 4.533 | 5.248 | 5.997 | - |
| 60 | 60 | - | - | 2.815 | 3.724 | 4.612 | 5.494 | 6.359 | 7.267 | - |
| 80 | 80 | - | - | 3.798 | 5.040 | 6.268 | 7.484 | - | - | - |
| 100 | 100 | - | - | - | 6.400 | 7.969 | 9.525 | 11.069 | 12.600 | 15.624 |
| 120 | 120 | - | - | - | 7.660 | 9.554 | 11.415 | 13.274 | 15.120 | 18.774 |

| Condensed ASTM Specification for Stainless Steel Tubes & Pipes | | | | | | | | |
|---|---|------------|------------|---------------------------------------|--------------------------|-------------------------------|---|---|
| Specification | Allowable Outside Diameter Variations in mm | | | Allowable Wall Thickness Variations | | Exact Length Tolerances in mm | | Testing |
| | Nominal Diameter | Over | Under | Over % | Over % | Over | Under | |
| ASTM A-213 Seamless Boiler, Superheater and Heat Exchanger Tubes | Under 25.4 | 0.10 | 0.10 | +20 | -0 | 3.17 | 0 | Tension Test |
| | 25.4-38.1 Incl. | 0.15 | 0.15 | +20 | -0 | 3.17 | 0 | Flattening Test |
| | 38.1-50.8 excl. | 0.20 | 0.20 | +22 | -0 | 3.17 | 0 | Flare Test |
| | 50.8-63.5 excl. | 0.25 | 0.25 | +22 | -0 | 3.76 | 0 | Hardness Test |
| | 63.5-76.2 excl. | 0.30 | 0.30 | +22 | -0 | 4.76 | 0 | 100% Hydrostatic Test |
| 76.2-101.6 incl. | 0.38 | 0.38 | +22 | -0 | 4.76 | 0 | Refer to ASTM A-1016 | |
| ASTM A-249 Welded Boiler Superheater, Heat Exchanger and Condenser Tubes | Diameter | Over | Under | Over% | Under% | Over% | Under | Tension Test |
| | Under 25.4 | 0.10 | 0.10 | +10 | -10 | 3.17 | 0 | Flattening Test |
| | 25.4-38.1 Incl. | 0.15 | 0.15 | +10 | -10 | 3.17 | 0 | Flare Test/Flange Test |
| | 38.1-50.8 excel. | 0.20 | 0.20 | +10 | -10 | 3.17 | 0 | *Reverse Bend Test |
| | 50.8-63.5 excel. | 0.25 | 0.25 | +10 | -10 | 4.76 | 0 | Hardness Test |
| 63.5-76.2 excel. | 0.30 | 0.30 | +10 | -10 | 4.76 | 0 | 100% Hydrostatic Test | |
| 76.2-101.6 incl. | 0.36 | 0.36 | +10 | -10 | 4.76 | 0 | * Reverse Flattening Test Refer to ASTM A-1016 *Wherever Applicable | |
| ASTM A-269 Seamless & Welded Tubing for General Service | Upto 12.7 | 0.13 | 0.13 | +15 | -15 | 3.2 | 0 | Flare Test |
| | 12.7- 38.1 excl. | 0.13 | 0.13 | +10 | -10 | 3.2 | 0 | Flange Test (Welded Only) |
| | 38.1-88.9 excl. | 0.25 | 0.25 | +10 | -10 | 4.8 | 0 | Hardness Test |
| | 88.9-139.7 excl. | 0.38 | 0.38 | +10 | -10 | 4.8 | 0 | Flattening Test, Reverse |
| | 139.7-203.2 excl. | 0.76 | 0.76 | +10 | -10 | 4.8 | 0 | Flattening 100% Hydrostatic Refer to ASTM A-1016 |
| ASTM A-312 Seamless & Welded Pipe | 13.70-48.3 incl. | 0.40 | 0.79 | Minimum Wall 12.5% under nominal wall | | 6.4 | 0 | Tension Test |
| | 48.3-114.3 incl. | 0.79 | 0.79 | Specified & maximum 20 % | | 6.4 | 0 | Flattening Test |
| | 114.3-220 incl. | 1.60 | 0.79 | | | 6.4 | 0 | 100% Hydrostatic Test Refer to ASTM A-999 (Normally Random Lengths ordered) |
| ASTM -358 Welded Pipe for High Temperature Service. | For all size 5" NB & Above | +0.5% | -0.5% | - | -0.3 mm | Customers Specification | | Transvers Tension test Transverse guided bend test. Hydrostatic test, radiographic penetrnt (optional.) |
| ASTM A-554 Mechanical Steel Tubing | Upto 5" 127 mm | 0.1 to 0.5 | 0.1 to 0.5 | +10 | -10% | 1.6 to 4.88 | 0 | As per Customer Requirement |
| ASTM A-688 For Welded Feed Water heater 'U' Tubes | Under 25.4 | 0.1016 | 0.1016 | +20 | -0 (For min. Wall thk.) | 3 to13 | 0 | Tension, Hardness, Corrosion, Reversebend, Flange, Flattening, Hydrostatic Test, Pneumatic Test, Non Destructive Test |
| | | | | +10 | -10 (For Avg. Wall thk.) | | | |

Eddy current non destructive test & intergranular corrosion test can be offered on request.

| Permissible Deviations of Outside Diameter and wall thickness | | | | | |
|---|----------------------------|---------------------|--|---------------------|---|
| Scope | | Outside diameter | | Wall thickness | |
| Tube Manufacturing Process | Outside diameter d_o mm | ISO tolerance class | Permissible deviation | ISO tolerance class | Permissible deviation |
| cold-fabricated | $d_o \leq 219.1$ | D 2 | ± 1.0 % min. ± 0.5 mm In special cases : | T 3 | ± 10 % min. ± 0.2 mm In special cases : |
| | | D 3 | ± 0.75 % min. ± 0.3 mm | T 4 | ± 7.5 % min. ± 0.15 mm |
| | | D 4 | ± 0.5 % min. ± 0.1 mm | | |
| hot-fabricated | $44.5 \leq d_o \leq 219.1$ | D 1 | ± 1.5 % min. ± 0.75 mm In special cases : | T 1 | ± 15 % min. ± 0.6 mm In special cases : |
| | | D 2 | ± 1.0 % min. ± 0.5 mm | T 2 | ± 12.5 % min. ± 0.4 mm ± 22.5 % - 15 % 2) |
| | $219.1 \leq d_o \leq 610$ | D 1 | ± 1.5 % min. ± 0.75 mm ⁵) | T 1 | ± 15 % min. ± 0.6 mm ³) |
| | | | | T 2 | ± 12.5 % min. ± 0.15 mm ⁴) |

1) Applies to tubes with wall thickness $\leq 0.05d_o$ 2) Applies to tube with thickness $s: 0.05d_o < s \leq 0.09d_o$ 3) Applies to tubes with thickness $> 0.09d_o$

4) The tubes can be ordered with sized ends. In this case a permissible deviation of the outside diameter of ± 0.6 % applies to the tube ends over a length of approx. 100 mm.



Chemical Compositions (%)

CHEMICAL COMPOSITIONS (%)

| Type | C | Mn | P | S | Si | Cr | Ni | Others |
|-------|------------|------------|-------|-------|------|---------------|-------------|--------------------------------------|
| 201 | 0.15 | 5.50 -7.5 | 0.060 | 0.030 | 1.00 | 16.0 - 18.0 | 3.5 - 5.5 | N 0.25 |
| 202 | 0.15 | 7.5 - 10.0 | 0.060 | 0.030 | 1.00 | 17.0 - 19.0 | 4.0 - 6.0 | N 0.25 |
| 301 | 0.15 | 2.00 | 0.045 | 0.030 | 1.00 | 16.0 - 18.0 | 6.0 - 8.0 | N 0.25 |
| 302 | 0.15 | 2.00 | 0.045 | 0.030 | 0.75 | 17.0 - 19.0 | 8.0 - 10.0 | N-0.10 |
| 304 | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 18.0 - 20.0 | 8.0 - 10.5 | N 0.25 |
| 304L | 0.03 | 2.00 | 0.045 | 0.030 | 0.75 | 18.0 - 20.0 | 8.0 - 12.0 | N 0.25 |
| 305 | 0.12 | 2.00 | 0.045 | 0.030 | 0.75 | | | |
| 309S | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 22.0 -24.0 | 12.0 - 15.0 | |
| 310S | 0.08 | 2.00 | 0.045 | 0.030 | 1.50 | 24.0 - 26.0 | 19.0 - 22.0 | |
| 316 | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 16.0 - 18.0 | 10.0 - 14.0 | Mo 2.0-3.0, N 0.10 |
| 316L | 0.03 | 2.00 | 0.045 | 0.030 | 0.75 | 16.0 - 18.0 | 10.0 - 14.0 | Mo 2.0-3.0,-0.10 |
| 316Ti | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 16.0 - 18.0 | 10.0 - 14.0 | N 0.10 Ti 5 (C+N) Min, 0.70 Max |
| 317 | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 18.00 - 20.00 | 11.0 - 15.0 | Mo 3.0-4.0, N 0.10 |
| 317L | 0.03 | 2.00 | 0.045 | 0.030 | 0.75 | 18.00 - 20.00 | 11.0 - 15.0 | Mo 3.0-4.0, N 0.10 |
| 321 | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 17.00 - 19.00 | 9.0 - 12.0 | Ti 5 (C+N) Min, 0.70 Max |
| 347 | 0.08 | 2.00 | 0.045 | 0.030 | 0.75 | 17.00 - 19.00 | 9.0 - 13.0 | Cb 10 x C Min, 1.0 Max |
| 904L | 0.02 | 2.00 | 0.045 | 0.030 | 1.00 | 19.00 - 23.00 | 23.0 - 28.0 | Mo 4.0-5.0, Cu 1.0-2.0 |
| 405 | 0.08 | 1.00 | 0.040 | 0.030 | 1.00 | 11.45 - 14.50 | 0.50 max | |
| 409L | 0.03 | 1.00 | 0.030 | 0.040 | 1.00 | 10.50 - 11.75 | 0.50 | Ti 6 (c) Min - 0.75 Max, Cb 0.17 Max |
| 410 | 0.15 | 1.00 | 0.040 | 0.030 | 1.00 | 11.50 - 13.50 | 0.75 | |
| 410S | 0.08 | 1.00 | 0.030 | 0.040 | 1.00 | 11.50 - 13.50 | 0.60 | |
| 420 | 0.15 (Min) | 1.00 | 0.045 | 0.030 | 1.00 | 10.50 - 15.50 | 1.0 - 2.5 | Mo 0.20-1.20 |
| 430 | 0.12 | 1.00 | 0.030 | 0.040 | 1.00 | 16.00 - 18.00 | 0.75 | |

STAINLESS STEEL - COMPARISON OF GRADE SPECIFICATIONS

| Grade | UNS | Old British | | | Name | Swedish SS | JIS |
|-------|--------|-------------|---------|--------|--------------------|------------|-----------|
| | | BS | En | W. No | | | |
| 201 | S20100 | 301SS21 | - | 1.4310 | X10CrNi18-8 | 2331 | SUS 201 |
| 202 | | | | | | | SUS 202 |
| 301 | S30100 | 301S21 | - | 1.4310 | X10CrNi18-8 | 2331 | SUS 301 |
| 302 | S30200 | 302S25 | 58A | 1.4319 | - | - | SUS 302 |
| 304 | S30400 | 304S31 | 58E | 1.4301 | X5CrNi18-10 | 2332 | SUS 304 |
| 304L | S30403 | 304S11 | - | 1.4306 | X2CrNi18-11 | 2352 | SUS 304L |
| 305 | S30500 | 305S19 | - | 1.4312 | - | - | SUS 305 |
| 309S | S30908 | 309S24 | - | 1.4833 | X12CrNi23-13 | - | SUS 309S |
| 310S | S31008 | 310S16 | - | 1.4845 | X8CrNi25-21 | 2361 | SUS 310S |
| 316 | S31600 | 316S31 | 58H,58J | 1.4401 | X5CrMo17-12-2 | 2347 | SUS 316 |
| 316L | S31603 | 316S11 | - | 1.4404 | X2CrNiMo17-12-2 | 2348 | SUS 316L |
| 316Ti | S31635 | 320S31 | - | 1.4571 | X10CrNiMoTi18-10 | 2350 | SUS 316Ti |
| 317 | | 316S16 | | | | | |
| 317L | S31703 | 317S12 | - | 1.4438 | X2CrNiMo18-16 | 2367 | SUS 317L |
| 321 | S32100 | 321S31 | 58B,58C | 1.4541 | X6CrNiTi18-10 | 2337 | SUS 321 |
| 347 | S34700 | 347S31 | 58G | 1.4550 | X6CrNiNb18-10 | 2338 | SUS 347 |
| 904L | N08904 | 904S13 | - | 1.4539 | X1NiCrMoCuN25-20-5 | 2562 | |
| 405 | S40500 | | | 1.4402 | X04Cr12 | | SUS 405 |
| 409L | | | | 1.4512 | X2CrTi12 | | |
| 410 | S41000 | 410S21 | 56A | 1.4006 | X12Cr13 | 2302 | SUS 410 |
| 410S | | | | 1.4000 | X6Cr13 | | |
| 420 | S42000 | 420S37 | 56C | 1.4021 | X20Cr13 | 2303 | SUS 420J1 |
| 430 | S43000 | 430S17 | 60 | 1.4016 | X8Cr17 | 2320 | SUS 430 |

Packing

Our products have to arrive safely, quickly and without damages at their destination in any part of the World. Adequate packing is also an essential part of quality assurance. In case of contaminations or damages the best material selection and fabrication are useless, if goods are not properly protected.

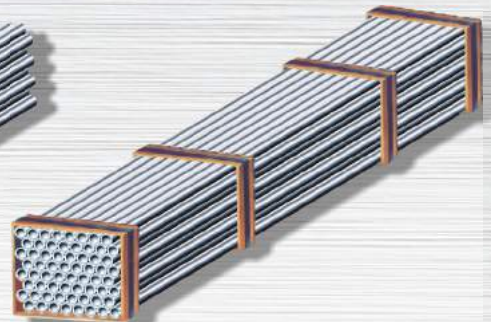
Within the scope of extensive quality assurance, Shubhlaxmi has developed customized packing methods to suit the size of the products and the transport conditions.



Hexagonal Strap Packing



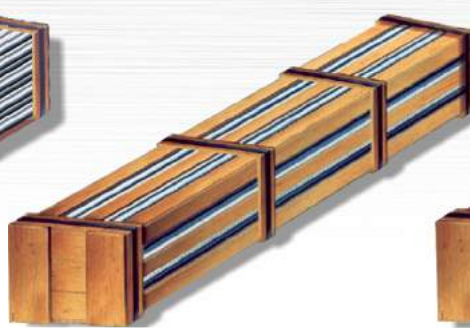
Rectangular Strap Packing



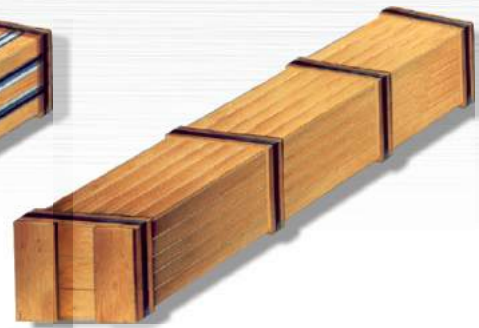
Rectangular Wooden Frame



Wooden Frame with Wooden Pallet



Wooden Crate



Wooden Box

Ready Stock for Dispatch

Availability a comprehensive range of product & quick service are prerequisite of well kept stock. Shubhlaxmi offers wide range of stock with different material Grade thus it is possible for us to guarantee quick delivery of any of the size available.



Certification



SHUBHLAXMITM

سابك
sabik

FACSIMILE TRANSMISSION
CONFIDENTIAL

Date: August 28, 2014
Ref: 000001097

To: Mr. Pravin Joshi
Shubhlaxmi Metals & Tubes Pvt. Ltd.
S/O. N. K. Joshi, 1st Floor, 2nd Stage,
Old Alkhail, P.O. Box 108,
Alkhail, Dhahran 31012 (K.S.A.)
T: +91 22 3389 1103
F: +91 22 3389 1109
E: shubhlaxmi@shubhlaxmi.com

Subject: SABIC Approval Update

Dear Sir,

We would like to inform you that the above mentioned manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

| Group | Product Category Number | City of Manufacture | Country |
|-------|-------------------------|---------------------|---------|
| 01 | Piping System | Udaipur, Gujarat | India |

The approval given by SABIC does not guarantee your company will receive tenders for all RFPs related to Project.

Yours faithfully,
28-08-2014
Abdulrahman A. Al-Sayegh
Vendor Contracting Manager
SABIC - Shared Services
T: +966 11 599 9175
E: aalshayegh@sabik.com

Chief Agent: Mr. A.E. Al-Jalal, General Manager, Abudhabi Abu Dhabi Trade Centre
P.O. Box 211, Al-Jalal - 11052, KSA
T: +966 11 599 9186
E: aaljalal@sabik.com

Abu Dhabi National Oil Company (ADNOC)
Suppliers Full Information Report

From Company: 000001
To Company: 000001

Company: 000001 - FALCOR ENGINEERING & CONTRACTING SERVICES LLC

| Product Group | Product Description | Product Code | Product Name | Product Unit | Product Status |
|---------------|-----------------------------------|--------------|-----------------------------------|--------------|----------------|
| 000001 | PIPE - ALL METALS FOR GENERAL USE | 000001 | PIPE - ALL METALS FOR GENERAL USE | 000001 | 000001 |
| 000002 | PIPE - ALL METALS FOR GENERAL USE | 000002 | PIPE - ALL METALS FOR GENERAL USE | 000002 | 000002 |
| 000003 | PIPE - ALL METALS FOR GENERAL USE | 000003 | PIPE - ALL METALS FOR GENERAL USE | 000003 | 000003 |

28-SEP-2014 09:30 FROM: FSD-TASKISS

FACSIMILE MESSAGE

To: Mr. Pravin Joshi
Abu Dhabi National Oil Company (ADNOC)
Attn: Contract Manager

From: Procurement Support Department Manager
Abu Dhabi Oil Refining Company (ADORC)
Attn: Contract Manager

Ref. No: 7 TCR/15/07/000001
Subject: REGISTRATION & PRE-QUALIFICATION STATUS

The below information is for your information. The information is based on the information provided by the manufacturer. Please be informed that based on the evaluation, the manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

Please note that at the time of release of enquiry, a further short listing stage based on additional information of the manufacturer is required. Please be informed that based on the evaluation, the manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

If you do not receive the above information, please contact the Procurement Support Department Manager.

SUPPLIER'S FULL INFORMATION REPORT

| PRINCIPAL NAME | REG. NO. | REG. DATE | EXPIRY DATE | PRODUCT GROUP | DESCRIPTION | STATUS |
|-------------------------------------|----------|------------|-------------|---------------|-----------------------------------|--------|
| SHUBHLAXMI METALS & TUBES PVT. LTD. | 000001 | 28-08-2014 | 28-08-2015 | 000001 | PIPE - ALL METALS FOR GENERAL USE | 000001 |
| SHUBHLAXMI METALS & TUBES PVT. LTD. | 000002 | 28-08-2014 | 28-08-2015 | 000002 | PIPE - ALL METALS FOR GENERAL USE | 000002 |
| SHUBHLAXMI METALS & TUBES PVT. LTD. | 000003 | 28-08-2014 | 28-08-2015 | 000003 | PIPE - ALL METALS FOR GENERAL USE | 000003 |

Registration/Updating

From: FALCOR Engineering & Contracting Services LLC
To: Mr. Pravin Joshi
Subject: Approval of your Application/Qualification ID 2025 for Update as VENDOR

Dear Sir,

We are pleased to inform you that your application/qualification ID 2025 for Update as VENDOR has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

Please note that at the time of release of enquiry, a further short listing stage based on additional information of the manufacturer is required. Please be informed that based on the evaluation, the manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

ZADCO

Registration/Updating

Current Query: Basic Information | Vendor | Linked Documents | Sign Out

Application ID: 2025
ZADCO Company Code: 000001
Reason for Application: Renewal For Update
Supplier Full Name: FALCOR ENGINEERING & CONTRACTING SERVICES

| Product Group ID | Description | Agency Link | Certificate No. | Expiry Date | Category Ref |
|------------------|-----------------------------------|-------------|-----------------|-------------|--------------|
| 000001 | PIPE - ALL METALS FOR GENERAL USE | 000001 | 000001 | 28-08-2015 | 000001 |
| 000002 | PIPE - ALL METALS FOR GENERAL USE | 000002 | 000002 | 28-08-2015 | 000002 |
| 000003 | PIPE - ALL METALS FOR GENERAL USE | 000003 | 000003 | 28-08-2015 | 000003 |

Abu Dhabi National Oil Company (ADNOC)
Suppliers Full Information Report

| Product Group | Product Description | Product Code | Product Name | Product Unit | Product Status |
|---------------|-----------------------------------|--------------|-----------------------------------|--------------|----------------|
| 000001 | PIPE - ALL METALS FOR GENERAL USE | 000001 | PIPE - ALL METALS FOR GENERAL USE | 000001 | 000001 |
| 000002 | PIPE - ALL METALS FOR GENERAL USE | 000002 | PIPE - ALL METALS FOR GENERAL USE | 000002 | 000002 |
| 000003 | PIPE - ALL METALS FOR GENERAL USE | 000003 | PIPE - ALL METALS FOR GENERAL USE | 000003 | 000003 |

Qatar Petroleum

MATERIALS DEPARTMENT
Dear Mr. Pravin Joshi,
We are pleased to inform you that your application/qualification ID 2025 for Update as VENDOR has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

Please note that at the time of release of enquiry, a further short listing stage based on additional information of the manufacturer is required. Please be informed that based on the evaluation, the manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

Facsimile Message

Ref: AD 128300
Date: 17 Aug 2014

FALCOR ENGINEERING & CONTRACTING SERVICES
Attn: Mr. Pravin Joshi

SUBJECT: REGISTRATION & PRE-QUALIFICATION STATUS

The below information is for your information. The information is based on the information provided by the manufacturer. Please be informed that based on the evaluation, the manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

Borouge

General Manager

To: Mr. Pravin Joshi
Company: FALCOR ENGINEERING & CONTRACTING SERVICES LLC
Fax no: 02 6349427
From: Procurement Strategy Department Manager
Date: 27/08/2014
Ref No: PR/2014/0001

Subject: Registration & Pre-qualification as Manufacturer

The below information is for your information. The information is based on the information provided by the manufacturer. Please be informed that based on the evaluation, the manufacturer has been approved in SABIC Global Product Procurement Approval system for as below:

1. Pipes - Stainless Steel - Welded
2. Pipes - Stainless Steel - Seamless

CLIENTELE



The collage features several key documents:

- TATA PROJECTS LIMITED:** Includes a 'Material List' table with columns for Item No., Item Description, Size, and Material Specification. It also contains a 'Vendor Registration' form and a 'Certificate of Approval' for manufacturing Stainless Steel Seamless & Welded Pipes & Tubes.
- Kncxir Consultants Pvt. Ltd.:** Features a 'Material List' table and a 'Certificate of Approval' for manufacturing Stainless Steel Seamless & Welded Pipes & Tubes.
- HINDUSTAN PETROLEUM CORPORATION LIMITED:** Contains a 'Vendor Registration' form and a 'Certificate of Approval' for manufacturing Stainless Steel Seamless & Welded Pipes & Tubes.
- SNC-Lavalin:** Includes a 'Vendor Registration' form and a 'Certificate of Approval' for manufacturing Stainless Steel Seamless & Welded Pipes & Tubes.
- SHUBHLAXMI:** Features a 'Vendor Registration' form and a 'Certificate of Approval' for manufacturing Stainless Steel Seamless & Welded Pipes & Tubes.

Third party inspection

Shubhlaxmi can offer you material with inspection of any third party. Third party Inspection offers quality and thorough Inspection for buyers. The Inspection Agency can be nominated by client or we can arrange the third party inspection by various world class reputed agency like below.....

Certification



SHUBHLAXMI™

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
Central Materials Management

Ref: HY/PUR/SDDG/0002001

To: SHUBHLAXMI METALS & TUBES PVT. LTD.

Sub: Enrichment of vendor with BHEL R.C.P. Form.

DATE: 16.12.2011

VENDOR CODE: QJ0025

Dear Sirs,

We refer your application on the subject matter and are pleased to inform that your firm has been enriched with BHEL, prospectively for development for the Material Categories and the list is enclosed below.

| Sl. No. | Item Description | Material Code | Item Description |
|---------|-------------------------------|---------------|-------------------------------|
| 1. | SEAMLESS STEEL TUBES (WELDED) | E.P.T.001 | SEAMLESS STEEL TUBES (WELDED) |
| 2. | SEAMLESS STEEL TUBES (WELDED) | E.P.T.002 | SEAMLESS STEEL TUBES (WELDED) |

Please note that this enrichment is subject to satisfactory execution of orders in delivery and quality of the above mentioned items when ordered for your various projects.

It may be noted that any change in the product range, location of manufacturing Office / management/organization structure, address, phone, e-mail etc. shall be intimated to us immediately along with relevant documents for our records. In case of any change in the above mentioned details, you shall be liable to inform us immediately. Our enquiries may not reach you, further enrichment with BHEL will not be considered.

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
ELECTRONICS DIVISION

Ref: ES/VD/4053011-02

Sub: VENDOR REGISTRATION

We are pleased to inform you that your company has been registered as a supplier with us for the supply of SEAMLESS STEEL TUBES (WELDED).

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

ANDHRA PRADESH POWER GENERATION CORPORATION LIMITED
(A Govt. of A.P. Undertaking)

From: The Chief Engineer, Hyderabad Region, Hyderabad - 500022

To: M/s. Shubhlaxmi Metals & Tubes Pvt. Ltd., Near Alambur Cinema, Hyderabad - 500044

Sub: APGENCO Vendor Registration for supply of stainless steel pipes

Ref: 1. Your firm has been provisionally registered as a trial vendor for supply of stainless steel pipes for the duration of 12 months from the date of issue of this letter. Your performance against APGENCO purchase orders.

With reference to the above, APGENCO is pleased to inform you that your firm has been provisionally registered as a trial vendor for supply of stainless steel pipes for the duration of 12 months from the date of issue of this letter. Your performance against APGENCO purchase orders.

| Description of Item (2) | Manufacturer (3) | Item Code (4) | Vendor Code (5) |
|--|-------------------|-----------------|-----------------|
| Stainless Steel Pipes and Tubes (Seamless, welded) | Manufacturer Name | Manufacturer No | MB33 |

Please Note:

- Vendor Registration Number (VR.No.) mentioned in the letter (3) of this letter shall be quoted for all future correspondence.
- The registration is valid for 12 months from the date of issue of this letter.
- High standards of integrity and performance in respect of dealing and delivery of goods shall be maintained and give us claims for complaints.
- Any conditions in respect of the tender and acceptance to APGENCO terms and conditions shall be observed.
- Your statutory documents shall be renewed as and when expired and when requested.

(Contd.-2)

ISIRI

ISIRI Program Code (IPAC)

Ref: 1. Your firm has been provisionally registered as a trial vendor for supply of stainless steel pipes for the duration of 12 months from the date of issue of this letter. Your performance against ISIRI purchase orders.

With reference to the above, ISIRI is pleased to inform you that your firm has been provisionally registered as a trial vendor for supply of stainless steel pipes for the duration of 12 months from the date of issue of this letter. Your performance against ISIRI purchase orders.

GEA - BGR

Sub: VENDOR REGISTRATION CERTIFICATE

We are pleased to inform you that your company has been registered as a supplier with us for the supply of stainless steel pipes.

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

Gujarat Narmada Valley Fertilizers Co. Ltd.
GNFC

Ref: 1. Your application.

Sub: Confirmation of registration as approved vendor.

Registration of items: SE Pipes & Tubes upto 8" NB; (A) Seamless; (B) HR OD; (C) Welded; (D) HR OD; (E) U-Tubes.

With reference to above, we are pleased to inform that our Vendor Evaluation Committee consisting of Senior Executives of GNFC has examined the Profile of your organization and considering core strengths of the organization, GNFC management has approved to include your organization in the list of approved vendors for the above items.

Your GNFC Vendor Code is: 112471.

This registration shall not create or impose any obligation or liability on GNFC. It is subject to the terms and conditions of the Vendor Registration Agreement. The registration will remain operative for above items as and when needs arise for the above items.

Kind Attention: M/s. Pishesh Shah

SHUBHLAXMI METALS AND TUBES PVT. LTD.

Sub: VENDOR REGISTRATION CERTIFICATE

We are pleased to inform you that your company has been registered as a supplier with us for the supply of stainless steel pipes.

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

TOYO ENGINEERING INDIA LTD

Sub: VENDOR REGISTRATION CERTIFICATE

We are pleased to inform you that your company has been registered as a supplier with us for the supply of stainless steel pipes.

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

WIPOL

Sub: PURCHASE ORDER

We are pleased to inform you that your company has been registered as a supplier with us for the supply of stainless steel pipes.

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

SHUBHLAXMI METALS & TUBES PVT. LTD.

Sub: PURCHASE ORDER

We are pleased to inform you that your company has been registered as a supplier with us for the supply of stainless steel pipes.

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

PROJECTS & DEVELOPMENT INDIA LIMITED

Sub: VENDOR REGISTRATION CERTIFICATE

We are pleased to inform you that your company has been registered as a supplier with us for the supply of stainless steel pipes.

You are required to quote the above supplier code for all correspondence with us.

Please note the following:

- You can access the details of purchase enquiries, purchase orders and payment from the web. A brief write up along with logs ID is provided in enclosed.
- Also, please inform us of any change in address, phone, fax, e-mail ID etc. in case of any change in our records.

With best wishes,
BANGALORE
DATE: 01.12.11

SHUBHLAXMI METALS & TUBES PVT. LTD.

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SHUBHLAXMITM

Shubhlaxmi Metals And Tubes Pvt. Ltd.

AN ISO 9001 : 2008, ISO 14001:2004 PED 97/23/EC, AD 2000 MERKBLATT WO CERTIFIED COMPANY

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"Retain Relationship, Business Will Follow"