STEEL GEMS

QUALITY YOU CAN TRUST

INDUSTRIAL PRODUCT CATALOGUE

Piping systems. Metal products.
Material confidence.



PIPES & TUBES



FITTINGS & FLANGES



METALS & FASTENERS

MANUFACTURER & SUPPLIER

Ferrous and non-ferrous materials for India and export markets.
ISO 9001:2015 certified | MSME registered

connect.steel-gems.com

OCTOBER 2026

STEEL GEMS AT A GLANCE

One partner.
A broad material range.

Mumbai-based manufacturer and supplier supporting industrial procurement, maintenance requirements and project material packages.

Manufacturing support

Pipe fittings, flanges and customized components, with scope defined by the approved requirement.

Supply coordination

Mixed-item enquiries across piping, metal products, industrial fasteners and special materials.

Quality documentation

Material certificates, testing and third-party inspection coordination against the order specification.

India & export

Packing, documentation and delivery coordination for domestic and overseas requirements.

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Supply ranges, makes, dimensions, certifications and delivery are confirmed in the written offer. Product images are illustrative and are not evidence of current stock.

PRODUCT RANGE

Pipes & tubes

For process lines, utilities, fabrication and maintenance requirements.

SUPPLY SCOPE

- Seamless, ERW, EFW and SAW pipes
- Spiral and large-diameter pipe enquiries
- Round tubes and square / rectangular sections
- IBR requirements when specified and agreed



Illustrative product visual

MATERIALS	SS 304/304L, 316/316L, 321, 310S, 904L; carbon steel, alloy steel, duplex and special-alloy grades.
REFERENCES	ASTM A106 Gr B, A53, A312, A335; API 5L; IS 1239 / IS 3589. Applicable material and dimensional standards must be specified separately.
APPLICATIONS	Oil & gas, process plants, utilities, pharmaceutical, food & dairy, power and EPC projects. Makes requested by buyers include MSL, ISMT, Jindal, Venus and Ratnamani; offered make and availability are confirmed in writing.

FOR AN ACCURATE QUOTATION

Grade and standard; NB/NPS or actual OD; schedule/wall; seamless or welded; length; quantity; ends; make; MTC, testing and delivery location.

Explore products and send an enquiry >

PRODUCT RANGE

Butt-weld fittings

Connect, branch, reduce and terminate industrial piping runs.

SUPPLY SCOPE

- 45-degree and 90-degree elbows; LR / SR
- Equal and reducing tees
- Concentric and eccentric reducers
- Caps and short / long stub ends
- Seamless and welded construction enquiries



Illustrative product visual

MATERIALS	ASTM A234 WPB / WP11 / WP22; ASTM A403 stainless grades; duplex and special-alloy enquiries.
REFERENCES	ASME B16.9; ASTM A234 / A403; ASTM B366 for applicable nickel-alloy fittings. Exact grade, construction and end-wall requirements govern the offer.
APPLICATIONS	Process piping, pipe spools, equipment connections, plant maintenance and project packages.

FOR AN ACCURATE QUOTATION

Fitting type; inlet / outlet sizes; schedule or end-wall thickness; radius / orientation; material; construction; quantity and inspection requirements.

Explore products and send an enquiry >

PRODUCT RANGE

Forged fittings & branch outlets

Compact connections for socket-weld and threaded piping systems.

SUPPLY SCOPE

- Elbows, tees and couplings / sockets
- Unions, plugs, bushes and nipples
- Swage nipples and hex adaptors
- Weldolets, sockolets and threadolets
- Project-specific small-bore connections



Illustrative product visual

MATERIALS	ASTM A105 carbon steel; ASTM A182 stainless and alloy grades, including F304/F304L and F316/F316L.
REFERENCES	ASME B16.11 for applicable forged fittings. Branch outlets, threads and nipples require the relevant product/drawing and thread standard.
APPLICATIONS	Small-bore utilities, instrumentation interfaces, equipment piping, steam and process installations.

FOR AN ACCURATE QUOTATION

Size; SW / threaded end type; pressure class or wall; NPT / BSP thread details; grade; length where applicable; quantity and required documentation.

Explore products and send an enquiry >

PRODUCT RANGE

Industrial flanges

Specify the connection, facing, bore and material before procurement.

SUPPLY SCOPE

- Weld neck, slip-on and blind flanges
- Socket weld, threaded and lap joint
- Raised face, flat face and RTJ enquiries
- Orifice and drawing-specific flanges
- Hub / plate-form requirements to be stated



Illustrative product visual

MATERIALS	ASTM A105; ASTM A182 stainless / alloy grades; duplex, super duplex and nickel-alloy enquiries.
REFERENCES	ASME B16.5 / B16.47 and applicable EN / DIN references, as ordered. Plate-material and forged-material specifications are not interchangeable.
APPLICATIONS	Equipment nozzles, valve connections, pipe joints, process systems and maintenance replacements.

FOR AN ACCURATE QUOTATION

NPS/DN; flange type; dimensional standard; class / PN; facing; bore / pipe schedule; hub requirement; material form; quantity; gasket/bolting scope.

Explore products and send an enquiry >

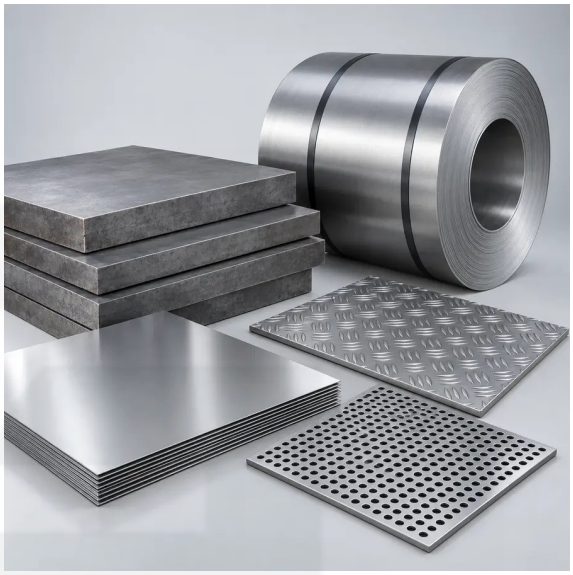
PRODUCT RANGE

Plates, sheets & coils

Flat products for fabrication, cladding, equipment and general industry.

SUPPLY SCOPE

- HR / CR plates, sheets and coils
- Chequered / diamond-pattern plates
- Perforated sheets against hole pattern
- Slit strips and cut-to-size enquiries
- GI sheets and fabrication-grade plates



Illustrative product visual

MATERIALS	Stainless 304/304L, 316/316L, 321, 310S, 904L; carbon / structural steels; alloy, copper and aluminium products.
REFERENCES	ASTM A240 for applicable stainless flat products; IS 2062 and relevant project grades. Coating, finish and tolerances follow the ordered specification.
APPLICATIONS	Fabricators, tanks and vessels, industrial flooring, furnace parts, food equipment and maintenance.

FOR AN ACCURATE QUOTATION

Grade; thickness; width x length; quantity / weight; finish; make; cutting / slitting; tolerances. For perforated sheet: hole size, pitch and pattern.

Explore products and send an enquiry >

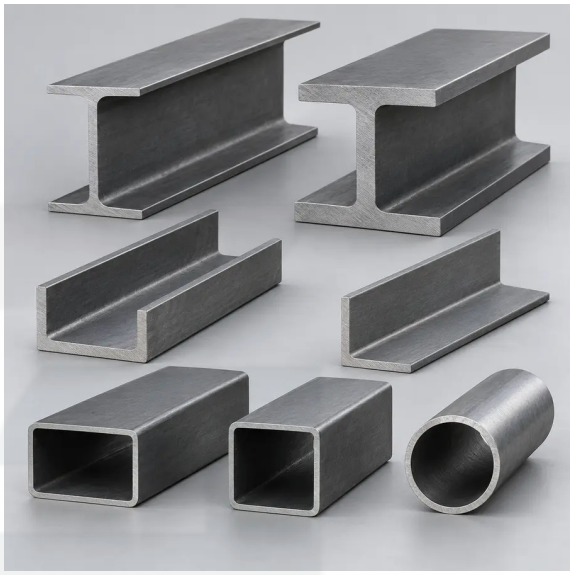
PRODUCT RANGE

Bars & structural sections

Solid products and sections for machining, supports and fabrication.

SUPPLY SCOPE

- Round, square, hexagonal and flat bars
- Angles, channels and beams
- Alloy-steel machining bars
- Forging-stock and drawing-cut lengths
- Stainless and non-ferrous bar enquiries



Illustrative product visual

MATERIALS	Carbon and stainless grades; ASTM A105 bar enquiries; EN8 / EN19; IS 2062; project-specific alloy and special-metal grades.
REFERENCES	Material/product standards, heat-treatment condition and dimensional tolerances must be stated in the RFQ. UT and traceability can be specified.
APPLICATIONS	Machining, supports, structures, equipment manufacturing, forging and general industrial fabrication.

FOR AN ACCURATE QUOTATION

Section / diameter; grade and condition; length; cutting plan; quantity / weight; straightness and tolerance; UT requirement and MTC.

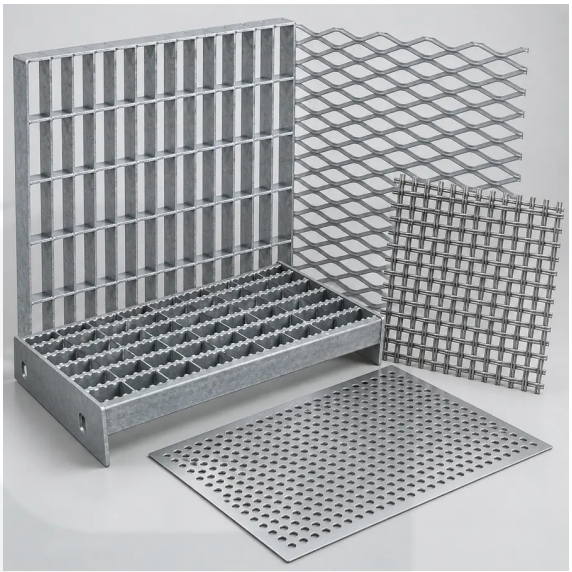
Explore products and send an enquiry >

SUPPORTING PRODUCT RANGE

Fasteners, gratings & wire mesh

Complete the material package with fastening, access and screening products.





Industrial fasteners

Bolts, studs, nuts, washers and drawing-specific fasteners. Carbon steel, stainless and alloy material enquiries.

Gratings & wire mesh

MS / hot-dip galvanized and stainless gratings; welded or woven mesh against specified bar, aperture and wire details.

FASTENER RFQ	Type; grade; diameter; thread standard; length; finish/coating; quantity; nuts/washers included or excluded.
GRATING RFQ	Panel size; bearing-bar size/pitch; cross-bar details; load basis; serrated/plain surface; finish; edge banding and drawings.
MESH RFQ	Grade; aperture; wire diameter; width/length; woven/welded type; quantity and application.

Coating thickness, load requirements and fastening suitability must be confirmed against the approved application.

BEYOND STEEL

Non-ferrous metals

Copper, aluminium and other non-ferrous material enquiries for industrial use.

Copper

Tubes, sheets, plates, bars and connection-material enquiries; temper and application requirements to be specified.

Aluminium

Sheets, plates, chequered plates, bars and sections. Common enquiries include 1200, 3003, 5052 and 5754.

Brass & bronze

Bars, bushes, fittings and machining stock against exact alloy designation, condition and drawing requirements.

Titanium

Tube, plate, bar and fitting enquiries subject to grade, product standard, availability and project scope.

PRODUCT FORMS	Tube / pipe, sheet / plate, round bar, section and custom-cut material.
KEY REQUIREMENTS	Exact alloy; temper / condition; product standard; dimensions; quantity; finish; test certificate and delivery.
TUBE ENQUIRIES	State actual OD x wall, length and coil / straight form. Pipe trade sizes and actual-OD tube sizes are different systems.

One RFQ can include steel and non-ferrous items.

Share the full list so our team can review grades, product forms, documentation and supply scope together.

PRODUCT RANGE

Duplex & nickel alloys

Material enquiries for demanding corrosion and temperature conditions.

SUPPLY SCOPE

- Duplex and super duplex materials
- Monel, Inconel and Hastelloy enquiries
- Pipes, fittings, flanges, plates and bars
- Mixed special-alloy project packages
- Testing and traceability as specified



Illustrative product visual

MATERIALS	Duplex 2205, super duplex 2507; Alloy 400, Alloy 625 and other specified nickel-alloy grades. Availability is confirmed per enquiry.
REFERENCES	Relevant ASTM / ASME and UNS designations depend on product form. A grade name alone is not a complete product specification.
APPLICATIONS	Chemical processing, marine service, oil & gas, heat-transfer equipment and demanding project applications.

FOR AN ACCURATE QUOTATION

Exact grade / UNS; product standard; size and wall; condition; service requirements; quantity; PMI / IGC / NDT; traceability and delivery.

Explore products and send an enquiry >

PRODUCT RANGE

Fabrication & heat-transfer products

Turn approved drawings into a clearly defined manufacturing enquiry.

SUPPLY SCOPE

- Pipe spools, manifolds and headers
- Finned tubes and heat-transfer coils
- Vessel nozzles and puddle flanges
- Custom fittings and fabricated components
- Project accessories: hoses, valves, strainers



Illustrative product visual

MATERIALS	Carbon steel, stainless steel, alloy and special materials, subject to approved design, welding and fabrication requirements.
REFERENCES	Drawings, material specifications, dimensional tolerances, inspection plan and acceptance criteria govern scope. Equipment accessories require approved makes/datasheets.
APPLICATIONS	Skids, process equipment, heat-transfer assemblies, pipe packages, plant modifications and maintenance.

FOR AN ACCURATE QUOTATION

Approved drawing; BOM; material; dimensions; weld / testing scope; quantity. Finned tubes: tube OD/wall/length, fin type/material/height/thickness/pitch and unfinned ends.

Explore products and send an enquiry >

WHERE OUR RANGE FITS

Materials for industrial projects

Support for purchasers, engineers, fabricators and maintenance teams across a broad range of industries.

Oil & gas / petrochemical

Pipe, fittings, flanges, special alloys and traceability-led material packages.

Chemical / pharmaceutical

Stainless, duplex and specialty materials selected against the approved process specification.

Power / utilities

Carbon and alloy-steel piping, fittings, supports and specified inspection requirements.

Food / dairy

Stainless material requirements with the specified grade, finish, dimensions and documentation.

Marine / infrastructure

Corrosion-resistant material enquiries, fabrication products and structural components.

EPC / equipment fabrication

Mixed BOQs, drawing-based items, pipe spools and coordinated supply requirements.

Project quantities. Maintenance lots. Made-to-drawing items.

Tell us the application, approved specification and required delivery. Material selection and design approval remain with the responsible engineering team.

QUALITY YOU CAN TRUST

Documentation is part of the requirement.

Define testing, inspection and traceability early so the commercial offer reflects the full project scope.

CERTIFICATES	Manufacturer test certificates; EN 10204 3.1 / 3.2 support as applicable and agreed.
TRACEABILITY	Heat-number identification, material marking and document alignment with the purchase requirement.
LAB TESTING	Chemical and mechanical testing through NABL laboratories when specified.
INSPECTION	PMI, visual/dimensional inspection, UT, RT, DPT / MPI, IGC and hydro testing, as applicable to the product and order.
THIRD PARTY	Inspection / witnessing coordination with BV, TUV, DNV, Lloyd's or the purchaser's nominated agency, subject to agreement.
PROJECT CONTROLS	Inspection and test plans, hold points, marking and packing instructions against the approved order.
IBR REQUIREMENTS	State IBR requirements at enquiry stage so material, documentation and inspection scope can be reviewed.

OUR ORDER REVIEW SEQUENCE

1. Review the specification > 2. Confirm the offered scope
3. Coordinate inspection and documentation > 4. Prepare dispatch

Tests, approvals and agency involvement are order-specific. Certification of the company does not by itself certify an individual product or approve a design.

STEEL GEMS DIGITAL DESK

Explore. Specify. Send a clearer enquiry.

Use our app to understand products, check reference information and prepare material requirements.

connect.steel-gems.com

Product catalogue, pipe-size charts, weight calculators, flange references and practical technical guides.

Pipe Buyer Desk >

Build a Pipe Connection >

Piping Layout Designer >

Identify the item

Product type, size(s), quantity and units. For drawings, include the latest revision.

Specify the material

Grade / UNS, product standard, schedule / wall / class and manufacturing form.

Define the quality scope

MTC, traceability, PMI, NABL, NDT, TPI and any IBR or project requirements.

Confirm delivery details

Required date, city / site / country / port, packing instructions and requested commercial basis.

Send your BOQ, drawing or material list.

sales@steel-gems.com

WhatsApp: +91 9619926607

Digital tools provide preliminary reference information and enquiry support. Confirm dimensions, materials and design suitability against approved documents.

TECHNICAL BUYING GUIDE

Pipe sizes. At a glance.

Common NB / NPS sizes, outside diameters and nominal wall thicknesses. All dimensions below are in millimetres.

NB	NPS	OD	10S wall	40 wall	80 wall
15	1/2	21.3	2.11	2.77	3.73
20	3/4	26.7	2.11	2.87	3.91
25	1	33.4	2.77	3.38	4.55
32	1 1/4	42.2	2.77	3.56	4.85
40	1 1/2	48.3	2.77	3.68	5.08
50	2	60.3	2.77	3.91	5.54
65	2 1/2	73.0	3.05	5.16	7.01
80	3	88.9	3.05	5.49	7.62
90	3 1/2	101.6	3.05	5.74	8.08
100	4	114.3	3.05	6.02	8.56
125	5	141.3	3.4	6.55	9.53
150	6	168.3	3.4	7.11	10.97
200	8	219.1	3.76	8.18	12.7
250	10	273.1	4.19	9.27	15.09
300	12	323.9	4.57	10.31	17.48

Important: at 300 NB / 12 NPS, Schedule 40 = 10.31 mm, while Schedule 40S = 9.53 mm. Always state the dimensional standard and full schedule designation.

Nominal theoretical pipe weight (kg/m)
pi x (OD - wall) x wall x density / 1,000,000

Use OD and wall in mm; density in kg/m3. Example: 50 NB, OD 60.3, wall 3.91, density 7,850 gives approximately 5.44 kg/m. Actual supplied weight depends on tolerances and material.

Open the interactive pipe chart >

TECHNICAL BUYING GUIDE

Specify the product. Then the material.

Use the approved grade and product specification together. The same alloy family can have different specifications for different product forms.

Product	Example material reference	Specify separately
Carbon-steel pipe	ASTM A106 Gr B / A53, as ordered	Construction, ends, size and wall
Stainless pipe	ASTM A312 TP304L / TP316L	Seamless / welded, size and wall
Carbon BW fittings	ASTM A234 WPB	ASME B16.9, type and end wall
Stainless BW fittings	ASTM A403 WP304L / WP316L	Construction, dimensions and end wall
Forged flanges / fittings	ASTM A105 / A182 specified grade	Product standard, class and facing / ends
Stainless flat products	ASTM A240 specified grade	Thickness, finish and tolerance
Duplex / nickel alloys	Exact grade / UNS and product form	Applicable product standard and condition

Do not substitute by name

304, 304L and dual-certified material must follow the approved specification and offered certification.

Compare complete offers

Review grade, form, dimensions, inspection, make and delivery together before comparing the price.

Examples are enquiry references, not automatic equivalence or suitability approvals. Material substitutions need purchaser / engineer approval.

TECHNICAL BUYING GUIDE

A complete flange RFQ. In six checks.

Confirm each field against the mating connection and approved piping specification.

01 Size & bore

State NPS / DN and bore or pipe schedule. Match the connected pipe and any weld preparation.

02 Type & standard

WN, SO, blind, SW, threaded or lap joint; state ASME / EN / DIN and the applicable standard.

03 Class / PN

Use the specified class / PN and material. Service pressure and temperature need engineering review.

04 Facing

RF, FF or RTJ; state the mating face, gasket details and required surface finish.

05 Material & form

State exact material specification, grade and forged / plate-form requirements.

06 Complete the joint

Define gasket, studs, nuts, coating, inspection and quantity; confirm included scope.

Copy this into your enquiry

Size: ____ | Type: ____ | Standard: ____ | Class / PN: ____
Face: ____ | Bore / wall: ____ | Material: ____ | Quantity: ____

Class 150 is a designation, not a universal 150 psi working-pressure limit. ASME class and PN designations must not be assumed interchangeable.

TECHNICAL BUYING GUIDE

Show the connection. State the dimensions.

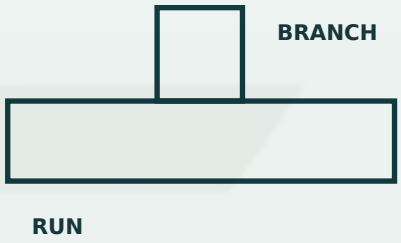
These schematic sketches identify enquiry dimensions. Supply actual values or an approved drawing for manufacturing.

Concentric reducer



Large OD x small OD; length; end walls; concentric / eccentric orientation.

Equal / reducing tee



Run size x branch size; run / branch walls; centre-to-end dimensions.

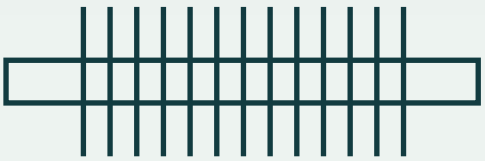
Pipe spool



FACE-TO-FACE LENGTH

Overall length; flange details; rotation; welds; support positions; drawing revision.

Finned tube



FINNED / UNFINNED LENGTH

Tube OD / wall; fin OD or height; thickness; pitch; bare ends; total length.

Schematics are not to scale and contain no manufacturing dimensions. Tolerances, standards and design acceptance must be supplied in the approved specification.

TECHNICAL BUYING GUIDE

Made to drawing. Defined before production.

Build a clear enquiry package for pipe spools, headers, manifolds, nozzles, puddle flanges and heat-transfer components.

DRAWING CONTROL	Drawing number, revision, dimensions, tolerances, units, orientation and approved BOM. Identify loose-supplied versus welded items.
MATERIALS	Pipe / tube, fittings, flanges and fin material grades; product specifications; wall / schedule; heat traceability.
FABRICATION	Joint details, welding procedure / qualification requirements, weld map, fit-up, surface treatment and finishing scope.
FINNED TUBES	Tube OD x wall x length; fin type, material, height / OD, thickness and pitch; finned length and unfinned ends.
TEST & RELEASE	Inspection plan, NDT, pressure / leak test requirements, acceptance criteria and customer / TPI hold points.
DELIVERY SCOPE	Quantity, protective packing, tags, delivery location and requested date. Identify design calculations or installation scope if required.

Hoses / bellows

Send media, pressure, temperature, movement / bend requirements, length and end connections; approved datasheet and make.

Valves / strainers

Specify type, bore, rating, ends, body / trim, actuation and testing. Confirm offered make and scope in the quotation.

Manufacturing feasibility, capacity, accessories, testing and delivery are reviewed against each enquiry; numerical capacity limits are confirmed in the written offer.

TECHNICAL BUYING GUIDE

Make the paperwork match the material.

A buyer checklist for reviewing the document package against the purchase order and item markings.

IDENTITY	Check manufacturer, certificate number, date, product description, size, quantity and ordered grade / specification.
HEAT MATCH	Match heat / batch numbers on the certificate with supplied material markings and the packing list.
RESULTS	Review chemical, mechanical and requested test results against the specified grade and ordered condition.
INSPECTION SCOPE	Check that agreed NDT, PMI, hydro, third-party witnessing and project hold points are covered where applicable.
DIMENSIONS	Verify dimensional reports, drawing revisions, tolerances and acceptance records for ordered items.
CERTIFICATE TYPE	Confirm the agreed certificate type and endorsement / validation requirements; do not treat 3.1 and 3.2 as identical.
DISPATCH FILE	Request the agreed MTCs, inspection records, packing list and other project documents before shipment release.

Agree the document list with the quotation.

When an item needs additional tests, witnessing or special certification, include it before order placement so cost, timing and availability can be reviewed.

This is a procurement checklist. It does not certify a shipment. Documents and inspection arrangements are confirmed for the individual order.

TECHNICAL BUYING GUIDE

Ready for the route. Packed for the requirement.

Tell us the destination, handling conditions and packing specification so the dispatch scope can be agreed.

Pipes & tubes

Specify bundles, lifting / handling instructions, end protection and surface preservation where required.

Fittings & flanges

Define face / thread protection, segregation, item marking and crate or pallet packing requirements.

Sheet / bar / custom items

State edge protection, wrapping, supports, lifting points and corrosion protection requirements.

Export dispatch

Confirm crate / pallet requirements, wood-packaging rules, labels, gross / net weights and shipping marks.

DESTINATION	Country; city / site; delivery port where relevant; consignee details and requested delivery date.
COMMERCIAL BASIS	Requested Incoterms rule, named place / port, currency, taxes / duties and included transport scope.
DOCUMENTS	Required packing list, invoice, origin documentation, test certificates and purchaser-specific dispatch records.
RELEASE CHECK	Review item quantities, heat / tag references, packing photos if agreed, document completeness and collection / shipping instructions.

Packing method, export documentation and freight scope are confirmed in the offer. Lead times depend on material, production, inspection and delivery arrangements.

TECHNICAL BUYING GUIDE

Your next enquiry. Ready to send.

Use this page with your BOQ or drawing. Email a scan or send the details through WhatsApp.

Company / contact person _____

Email / phone _____

Project / application _____

Delivery city, country / port _____

Required date / drawing revision _____

Item / product	Grade / standard	Size / wall / rating	Qty / unit
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Quality scope: MTC ____ PMI ____ NDT ____ TPI ____ Other ____
Packing / finish / make / special instructions: _____
_____

sales@steel-gems.com

WhatsApp: +91 9619926607

Attach the latest BOQ, specification and drawing.
Scan the QR to start your WhatsApp enquiry.

LET'S BUILD YOUR NEXT MATERIAL REQUIREMENT.

Pipes. Fittings. Flanges. Metals.
One conversation to define the full scope.

VINAY CHANDAN

Proprietor

+91 9619926607

KRUNAL CHANDAN | Co-owner

+91 9757300188

sales@steel-gems.com

steel_gems@yahoo.com

www.steel-gems.com

connect.steel-gems.com

Office No. 21, 2nd Floor, Rajgopal Bhuvan,
Chandawadi, Nanubhai Desai Road,
Mumbai - 400004, Maharashtra, India.

GSTIN: 27ATBPC8627P1Z9

MSME / UDYAM: UDYAM-MH-19-0131614

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