PRAKASH

SURYA

Steel Tubes & Pipes



- ERW GI Pipes
- ERW Black Pipes
- Steel Hollow Sections
- Oil & Gas API Line Pipes
- Casing Pipes
- GP Pipes
- Steel Door Frames

Built to Last forever



PRODUCT CATALOGUE

DIVERSE PRODUCTS

Extensive Applications



- Plumbing & Sanitation Work
- Fire Fighting Systems
- Heating, Ventilation and Air Conditioning (HVAC)
- Water Pipe Lines
- Agriculture & Irrigation
- Oil & Gas API Line Pipes
- Power Sector
- Construction Industries
- **Infrastructure:**
  Railways, Airports, Metro Rail, Stadium, Bridge & Highways
- **General Engineering:**
  Commercial Vehicle, Bus Body, Defence Hanger, Scaffolding, LPG Cylinder Supporting Rings, Steel Tubes for Idlers & Belt Conveyors, Electrical Installation
- **Other Purposes:**
  Electrical Poles & Telecom Tower, Tubular Swaged Poles, Solar Power, Warehouse, Cold Storage & Sugar Industries

PRAKASH SURYA
Steel Tubes & Pipes

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Our Manufacturing Plants



Bahadurgarh Plant (Delhi NCR)



Malanpur Plant (Gwalior, M.P.)



Bhuj Plant (Gujarat)



Hindupur Plant (A.P.)



About Us

Surya Group is a vast conglomerate having business interest in Steel Pipes, CR Strips, Lighting and home appliances Industry. Surya's modernised and state-of-the-art production facilities based at Bahadurgarh (Haryana), Bhuj (Gujarat), Gwalior (M.P) & Hindupur (A.P) are certified for ISO 9001:2015, ISO 14001:2015, ISO (OH&S) 45001:2018.

We are the national player catering to the varied market needs and requirements in both Steel Pipe and Lighting Industry. Surya pipes manufacturing range includes wide spectrum i.e. Plumbing, Fire Fighting, HVAC, Irrigation, Process Industry, Structural Hollow Sections, Industrial usage, Automobile, Infrastructure, Construction, Oil & Gas API Line Pipes, Power, Casing and many more, with our wide range of ERW and Spiral Welded Pipes.

Surya is the largest Manufacturer and Exporter of Galvanized Steel Pipes. With a turnover of over Rs. 8,000 Crores, Surya's quest for growth is never ending. The organization is blessed with an intellectual team of Engineers, Technical and Quality experts to deliver products as per various National & International standards. Surya is specialized in Oil & Gas utility Line Pipe with American Petroleum Institute - API 5L Monogram up to Grade X-80, Casing & Tubing as per API 5CT. Our plants are also certified by UL, FM, SLS and CE Certifications.

The Pan-India Marketing and Distribution network provides us access and reach to every nook and corner of the Country. We are privileged to be considered as preferred brand across several segments. The group's Lighting business is commanding the Second Largest Market Share in India and provides total Lighting Solutions to its customers. Surya's PVC division, based at Kashipur (Uttarakhand) is presently manufacturing and supplying CPVC, uPVC, Agri, SWR, Column Pipes & Fittings used for various applications with world's best manufacturing technology.

The strength of Surya pipes lies in its large DIA pipes, with diameter ranging from 114.3 mm to 406.4 mm in ERW & 457mm to 2667mm in Spiral. It has achieved remarkable success in producing various special grades, including API 5L grade A, grade B as well as X42 to X70, PSL 2 and API 5CT grade H40, J55, K55, PSL1.

One Of The **LARGEST** pipe **MANUFACTURER** with **CAPACITY** About **10,00,000 MT** (1million) Per Annum.

FIRM **COMMITMENT** TO **EXCELLENCE** IN **QUALITY,** A **BRAND LEADER** IN BOTH **STEEL PIPE** AND **LIGHTING INDUSTRY.**

THE COMPANY HAS A **WIDE MARKETING** NETWORK WITH ITS **BRANCHES, DISTRIBUTORS** AND **DEALERS** NETWORK SPREAD **ALL** OVER THE **COUNTRY.**

A **TURNOVER** OVER **RS 8000 CRORES,** THE GROUP'S QUEST FOR **GROWTH** IS NEVER ENDING.

ONE OF THE **BIGGEST** INDIAN CORPORATE IN STEEL PIPE EXPORTING TO OVER **50 COUNTRIES.**

SURYA GROUP IS TAKING BIG STRIDES IN ITS CHOSEN AREAS WITH TESTED **SKILLS, COMMITMENT, SKILLED WORKFORCE,** VAST EXPERIENCE AND MATURE **LEADERSHIP.**

PRAKASH
SURYA
Steel Tubes & Pipes

Exports To Over
50 Countries



NEW ZEALAND
USA
UNITED KINGDOM
GERMANY
AUSTRALIA
SRILANKA
CANADA
HONG KONG
U.A.E
MALAYSIA
FRANCE
NETHERLANDS
IRELAND
SAUDI ARABIA
SINGAPORE
QATAR
GHANA
JORDAN
BAHRAIN
TANZANIA
SEYCHELLES
UGANDA
EGYPT
ETHIOPIA
CYPRUS
MYANMAR
NIGERIA
SPAIN
SLOVENIA
MEXICO

PRAKASH
SURYA
Steel Tubes & Pipes





ERW Welded Pipe Plant



ERW pipes are extensively used in agriculture, industry, construction activities like scaffolding, structural purpose and casing in bore wells, conveying water, gas, crude oil and chemicals at various pressures and densities over long distances. Considering the challenging and varied applications, the pipes are produced to meet very high standards of both national and international specifications .

Quality assurance begins at the raw material stage and continues right through all the manufacturing operations, till the Pipes are packed for dispatch. The quality assurance department is fully backed by a modern laboratory for various metallurgical & Chemical tests and a test house for testing physical properties. It has been awarded the prestigious ISO 9001:2015 certificate for its quality management systems.

Product Profile: ERW Pipes

NPS	Thickness	Capacity (MT per annum)	Length	Specifications	Pipe Ends
½" to 16" (15 nb) (406 nb)	1.0 mm to 12.7 mm	8,00,000 (0.8 Million)	3000 mm to 12900 mm	National / International specifications including API5L upto X-80, PSL1&2, API 5CT H40, J55, K55 PSL1, EN : 10255/10219, EN : 10217-1, AS : 1074, IS :1239, IS :3589, IS :1161, IS :4923, AS NZ 1163: 2016, ASTM A 53. BS EN - 39, ASTM A 500 ASTM A 252, ASTM A 795, SLS 829:2009 etc.	Plain, Bevelled, Threaded, Roll-Grooved





Powder Coated Pipes & Swaged Poles

SWAGED POLES : PRAKASH SURYA Steel Tubular Pole (Swaged Type) as per IS: 2713/ (Part I - III). These poles are mainly used for street lighting with single hang (arm) & double hang (arm), Traffic Lights and Power Transmission. The Poles are manufactured on most modern and sophisticated machines and fabricated by an excellent team of highly experienced and qualified personnel. The complete testing facility and competent quality team ensure the unmatched quality of the poles.

We have complete range from SP-1 to SP-80 in Length 7.0 meters to 16 meters. The design, shape, and sizes can be customized as per the client's requirement with the utmost quality. Poles are supplied with Red oxide coating or hot dip galvanized as per the requirement. Proper material strength, Straightness, size and strong welding are the key features of Prakash Surya Poles.



POWDER COATED PIPES: We have recently added facility of powder coating on hot-dip galvanized pipes. These pipes are widely used for Gas connection under city Gas Distribution Network. There are many other applications like Public Park's gym, children's playgrounds, scaffolding, railings etc. The powder coating is carried out on the precise machines of a reputed brand by an expert team, which ensures the uniform and tough coating. For all testing, we have in-house testing facilities.

Powder Coating on Galvanized Pipes details are as under:

Pipe Size Range	NB 15mm to NB 100mm. Length upto 6.10 meter max.
Method	Electrostatic Spraying with one of the most reputed Gema Make guns.
Powder	Pure polyester - For the product exposed to sun light. Epoxy polyester powder - For interior application.
Colour / Shade	As per customer requirement.
Finish	Glossy / Semi glossy / Matt
Standards	IS:13871 / ASTM D3451

PRAKASH SURYA
Steel Tubes & Pipes



SPIRAL Welded Pipe Plant

All the machines for manufacturing of Spiral Welded Pipes have been imported from Byard Malaysia and Germany, who are world class manufacturers of Spiral Pipe Plant machinery. The plant is situated at a strategic location in close proximity to the ports at Kandla (22km) and Mundra (35km) which have adequate facilities for handling heavy cargos.

Product Profile: SAWH Pipes (Manufactures at Surya Roshni Limited, Bhuj)

Outside Diameter	Thickness	Capacity (MT per annum)	Length	Grade	Pipe Ends
18" (457 mm) to 105" (2667mm)	5.2 mm to 25.4 mm	100,000 (0.1 Million)	Upto 13000 mm (13 Mtr)	API 5L GR upto X80, ASTM A 252, ASTM A 139, IS 3589, IS 5504	Plain / Bevelled





Manufacturing Process of ERW Pipes

MANUFACTURING PROCESS

ERW pipes are made from HR Coils manufactured & supplied by reputed major steel producers. After being longitudinally slitted & edge preparation, the strip is progressively formed into a circular shape by passing it through a series of forming rolls.

Continuous welding is carried out by a high frequency welding machine and the seam is formed by fusing the edges without any filler metal. The weld bead reinforcement (inside) is removed if needed. The welded pipe is cooled, then it is cut into appropriate length after attaining its roundness and specified outside diameter.

The pipes are conveyed to the finishing bay for finishing, testing and inspection. Hydro testing of pipes is undertaken to detect leaks and fissures prior to galvanizing and threading. The pipes are subsequently galvanized/black varnished/threaded as per specification /client requirement.

EQUIPMENT DETAILS

DESCRIPTION:

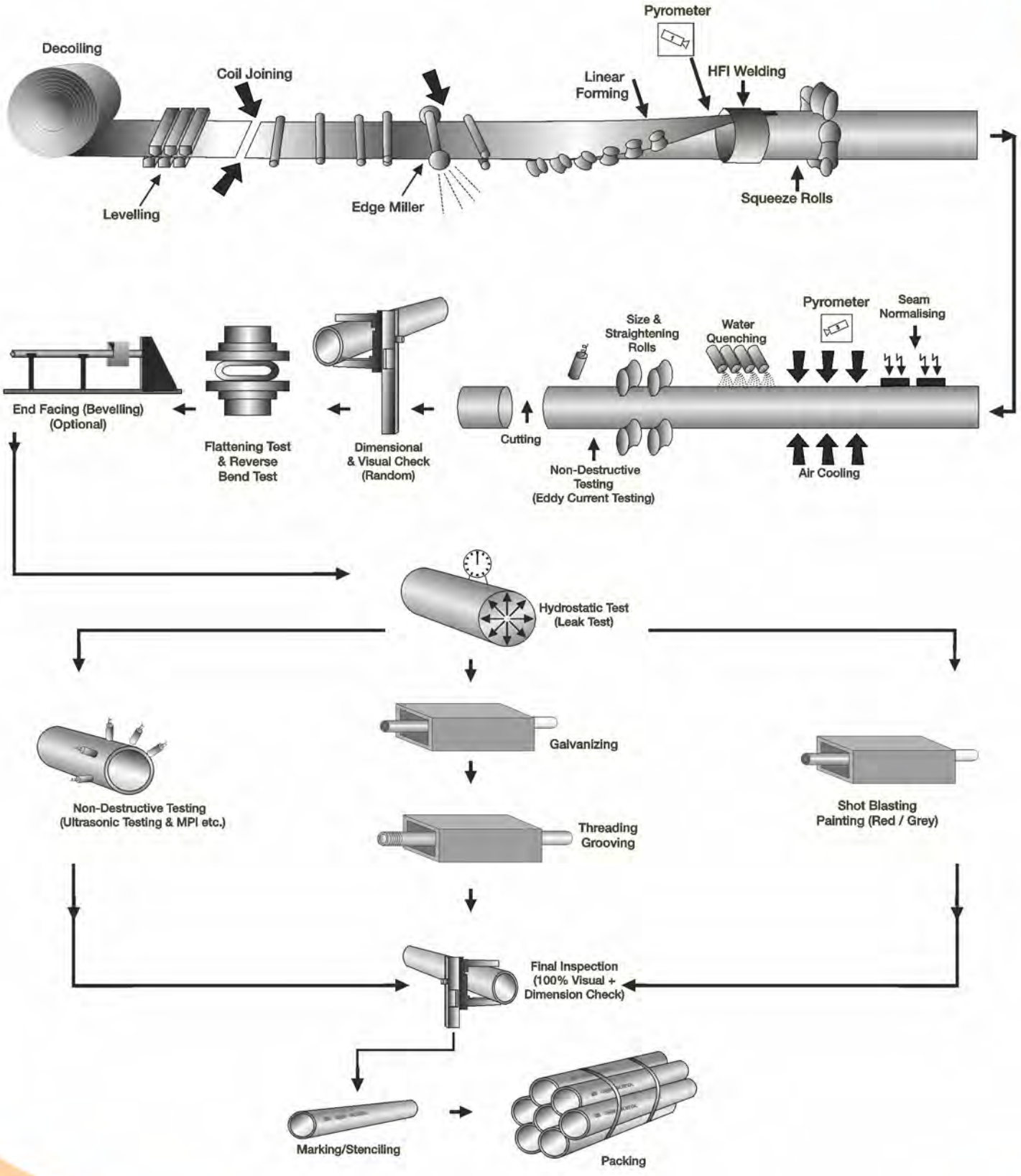
- Slitting lines
- ERW pipe mills with latest technology
- Galvanizing plants
- Threading machines
- Marking machines
- Hydro testing machines
- Automatic ultrasonic testing machine/Eddy current M/C (NDT)
- Fully computerized Japanese spectrometer for carrying out chemical analysis
- In house fully equipped laboratory for chemical and mechanical testing
- D.G. set
- 33 KV power substation for round-the-clock production

FOCUS ON QUALITY

Customer satisfaction drives Surya in everything that it does. No wonder, its commitment to the high quality of its pipes commences right from the selection of raw material and continues at every stage of the manufacturing process till the finished product. The inspection procedures evaluate each pipe for surface finish, perfection of weld, correct diameter, wall thickness, length and weight.

PRAKASH SURYA
Steel Tubes & Pipes

Flow Chart: ERW Pipes



PRAKASH SURYA
Steel Tubes & Pipes

Modern Laboratory





To ensure product reliability through process control, Surya has a fully equipped metallurgical laboratory with all the tools essential for comprehensive product quality testing and evaluation to withstand reactive processes. Destructive testing of pipes entails performance examination of the weld as well as their tensile and compressive strength.

Testing and Quality Control Facilities

Besides the numerous quality control measures during the manufacturing process and at various inspection points, the following facilities are also utilized for ensuring stringent quality standards.

• Universal Testing Machines (Digital) with extensometer	For material testing (mechanical properties)
• Eddy Current Testing Machine (NDT)	For ON-LINE flaw detection on welds
• Ultrasonic Testing Machine (NDT) (Parent Metal/Welds)	For checking strip laminations and flaw detection on welds and pipes in auto mode
• Metallurgical Microscope	For checking and evaluating the grain structure of material, heat affected and weld zones
• Hardness Tester (Fixed / Mobile)	For checking hardness on weld, heat affected zone and base metal
• Digital Ultrasonic Thickness Gauge	For checking thickness of pipes
• Mandrels and Fixtures	Reverse bend test, GBT, Root bend test, Face bend test
• Impact Test Machine (Charpy v notch)	For checking absorbed energy on base metal, weld and Heat Affected Zone.
• Bending Machine	For pipe bend test
• Drop weight tear test	For evaluating the % shear area of material
• Spectroscope	For checking chemical composition of coil & pipe.
• Coating thickness Gauge	For checking of galvanizing thickness.

Apart from the above important testing machines, we have temperature recorders for seam normalising, automatic pressure recording for hydrostatic test pressure and many other sophisticated measuring instruments.

The trained and committed work force ensures high quality of pipes made to various National and International standards including the requirement of API specifications. The quality control system is audited time to time by the various certification bodies, including API to verify the effectiveness of the system.

PRAKASH SURYA
Steel Tubes & Pipes

Testimony to Our Capability

Three star "Certificate of Recognition" from Govt. of India

Management System Certificate :

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018

Product and Marking Certificate :

- BIS Licenses (IS 1239 (part-1), IS 3589, IS 4270 , IS 1161, IS 4923, IS/ISO 3183, IS 3601, IS 9295, IS 9537 (part-2), IS 2713 (part 1-3), IS 5504)
- API 5L
- API 5CT
- EN 10219-1:2006 – Construction Product Regulation 305/2011
- EN 10255:2004+A1:2007 – Construction Product Regulation 305/2011
- EN 10217-1:2019
- UL
- FM Approval
- CE
- SLS 829:2009 – GI Pipes
- AFP– 2977 (Activfire) for AS 1074
- AFP– 3206 (Activfire) for ASTM A135/A53

मानक: पथप्रदर्शक:

MGMT. SYS. RvA C 024

CE

SLS 829

UL Underwriters Laboratories

FM APPROVED

ACTIVFIRE® ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION





DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of
Surya Roshini Limited
(Steel Division)
Prakash Nagar Sankhol, Delhi- Rohtak Road, Bahadurgarh – 124 507, Haryana, India

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
Manufacture of mild steel ERW pipes/tubes (black & galvanized) and cold rolled steel strips

ISO 9001: 2015
1420-2007-AQ-IND-RvA
(Bahadurgarh Plant)



TÜV NORD

CERTIFICATE

Management system as per
ISO 9001 : 2015

SURYA ROSHNI LIMITED
Plot 57, Gollapuram Industrial Area,
Hindupur, Anantapur Dist. - 515 211,
Andhra Pradesh,
India

Manufacturer and Supply of Mild Steel ERW Pipes/Tubes (Black/Pre-Galvanized & Galvanized).

ISO 9001 : 2015
4410018391831
(Hindupur Plant)



DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of
Surya Roshni Limited
Survey No. 186, Anjar - Mundra Highway, Village. Bhuvad, Taluka. Anjar, District: Kutch - 370130, Gujarat, India

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
- **Manufacture of HSAW (helical submerged arc welded) pipes and ERW (electric resistance welded) pipes and tubes for oil and gas, water & structural purposes**
- **Performing anti-corrosion coating (three-layer polyethylene, three-layer polypropylene, single and double layer fusion bonded epoxy, lacquer coating, primer coating and galvanizing)**

ISO 9001:2015
70121-2010-AQ-IND-RvA
(Bhuj Plant)



KVQA

Certificate of Registration

(Quality Management System)
KVQA CERTIFICATION SERVICES PVT. LTD.
This is to certify that the Quality Management System of
SURYA ROSHNI LTD.
(Steel Pipe Division).
P-1 to P-20, Ghirongi Industrial Area, Malanpur, Dist.-Bhind-477 117, Madhya Pradesh, India.
Has been found to be of the Quality Management System Standard
ISO 9001:2015
This certificate is valid for the following product or service range
Manufacturer and Supply of MS ERW, Pre Galvanized, Cold Rolled Pipes/Tubes & Swaged Poles – Black, Varnished & Galvanized.

Certified Since: 03 August 2018
1st Surveillance Due On: 03/07/2022; Done On:
2nd Surveillance Due On: 03/07/2023; Done On.

Certificate No: KDACQ202108126
Date Of Issue: 03, August, 2021
Valid Until: 02, August, 2024*

Issued by
Authorised signatory of KVQA

IAF eiaci CB-045-QMS

To Check the Status of the Certification kindly log on to www.kvqa.in
F-260, Sector - 63, Noida U.P. India. Ph- 0[illegible]
Email : delhi@kvqaindia.com
*Subject to successful completion of surveillance audits

ISO 9001 : 2015
127253-2012-AQ-IND-RvA
(Malanpur Plant)

Under renewal for change of name, all the renewed certificates would be provided upon request.

PRAKASH
SURYA
Steel Tubes & Pipes



KVQA

Certificate of Registration

(Environmental Management System)

KVQA CERTIFICATION SERVICES PVT. LTD.

This is to certify that the Environmental Management System of

SURYA ROSHNI LTD.

(Steel Pipe Division).

P-I to P-20, Ghirongi Industrial Area, Malanpur, Dist.-Bhind-477 117, Madhya Pradesh, India.

Has been found to be of the Environmental Management System Standard

ISO 14001:2015

This certificate is valid for the following product or service range

Manufacturer and Supply of MS ERW, Pre Galvanized, Cold Rolled Pipes/Tubes & Swaged Poles – Black, Varnished & Galvanized.

Certified Since: 03 August 2018
1st Surveillance Due On: 01/09/2022: Done On:
2nd Surveillance Due On: 01/09/2023: Done On:

Certificate No: KDACE202111003
Date Of Issue: 01, November, 2021
Valid Until: 31, October, 2024*

Issued by
Authorised signatory KVQA

IAF

eiaC
CB-EMS-045

To Check the Status of the Certification kindly log on to www.kvqa.in
F-308, Sector - 63, Noida U.P. India. Ph- 011 -22711940, 22711941
Email : delhi@kvqaindia.com
*Subject to successful completion of surveillance audits

ISO 14001:2015
KDACE202111003
(Malanpur Plant)



DNV

MANAGEMENT SYSTEM
CERTIFICATE

This is to certify that the management system of
Surya Roshni Limited
Survey No. 188, Anjar - Mundra Highway, Village: Bhuvad, District: Kutch – 370 130, Gujarat, India

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:
Manufacture of HSAW (helical submerged arc welded) and ERW (electric resistance welded) pipes and tubes for oil and gas, water & structural purpose and performing anticorrosion coating (three-layer polyethylene, three-layer polypropylene, single and double layer fusion bonded epoxy, laquor coating, primer coating and galvanizing)

IAF

ISO 14001:2015
177047-2015-AE-IND-RvA
(Bhuj Plant)



DNV

MANAGEMENT SYSTEM
CERTIFICATE

This is to certify that the management system of
Surya Roshni Limited
Survey No. 188, Anjar - Mundra Highway, Village: Bhuvad,District: Kutch - 370130 Gujarat, India

has been found to conform to the Occupational Health and Safety Management System standard:
ISO 45001:2018

This certificate is valid for the following scope:
Manufacture of HSAW (helical submerged arc welded) and ERW (electric resistance welded) pipes and tubes for oil and gas, water & structural purpose and performing anticorrosion coating (three layer polyethylene, three layer polypropylene, single and double layer fusion bonded epoxy, laquor coating, primer coating and galvanizing).

IAF

ISO 45001:2018
10000442033-MSC-RvA-IND
(Bhuj Plant)



Certificate of Compliance

Underwriters Laboratories Inc.

SURYA ROSHNI LTD

PRAKASH NAGAR, BAHADURGARH
JHAJJAR, HR 124507 INDIA

Metallic Sprinkler Pipe

Refer to Addendum page

The basic standard used to investigate products in this category is UL 852, "Metallic Sprinkler Pipe for Fire Protection Service."

See UL On-Line Certification Directory at www.UL.com for additional information.

Look for the UL Recognized Component Mark on the product

UL CERTIFICATE
Manufacturer Subscriber No.: 100535-262-EX15061
(Bahadurgarh Plant)

Under renewal for change of name, all the renewed certificates would be provided upon request.



DNV·GL

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product(s)

Cold formed welded structural hollow sections of non-alloy steels

to be used in metal structures or in composite metal and concrete structures

placed on the market under the name or trade mark of

Surya Roshni Limited

Survey No: 168/1, Anjar Mundra Highway, Vill: Bhuvad,Tal: Anjar Dist.,Kutch,PIN – 370130,Gujarat,India

and produced in the manufacturing plant(s)

Surya Roshni Limited

Survey No: 188/1, Anjar Mundra Highway, Vill: Bhuvad,Tal: Anjar Dist.,Kutch,PIN – 370130,Gujarat,India

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 10219-1:2006

under system 2+ are applied and that

THE FACTORY PRODUCTION CONTROL IS ASSESSED TO BE IN CONFORMITY WITH THE APPLICABLE REQUIREMENTS.

This certificate will remain valid until its validity end date as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly – unless suspended or withdrawn by the notified factory production control certification body.

For more details see Annex to accompany this Certificate.

Place and date:
Barendrecht, 2020-06-04

For the Notified Body DNV:
DNV GL Business Assurance B.V.

PRODUCTS RvA C 312

CE CERTIFICATE
EN 10219-1:2006
2388-CPR-10000349931-Rev. 3.0
(Bhuj Plant)



DNV·GL

CERTIFICATE OF
FACTORY PRODUCTION CONTROL

Certificate No:
10139-2017-CE-IND Rev. 2

Initial certification date:
20 December, 2010

Valid:
19 December, 2022

This is to certify that

That the product(s)

Non-alloy steel tubes suitable for welding and threading

Manufactured by

Surya Roshni Limited

Survey No.188, Anjar Mundra Highway, Vill: Bhuvad, tal: Anjar, Distt: Kutch, PIN - 370130, India

has on a voluntary basis been assessed with respect to the conformity assessment procedure "Factory Production Control" as described in EN 10255:2004+A1:2007 annex ZA Clause 12.1 of the standard on structural steel, as amended and found to comply.

Applications / Limitations

In compliance with the Construction Product Regulation 305/2011, CE marking & provide Declaration of Performance and Attestation procedure AoC 3, which is described in the Standard EN 10255:2004 +A1:2007 according the Annex ZA. Initial Type Testing (ITT) Clause 12.2 shall meet the requirements and compliance of the same rests under responsibility of the Manufacturer.

This certificate remains valid during a three year period as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the factory production control itself are not modified significantly. The product liability rests with the manufacturer or his representative

Place and date:
Chennai, 14 January, 2020

For the issuing office:
DNV GL – Business Assurance
RDMA, No. 10, GST Road,
Alandur, Chennai - 600 016,
India

Iyer, Hariharan Sundareswara
Manager – Product Certification

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. Except for any liability caused by DNV GL's gross negligence or wilful misconduct, DNV GL's maximum cumulative liability arising out of or related to the use of or reliance on this document shall be limited under no circumstances exceed the amount of the fee.
Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DNV GL BUSINESS ASSURANCE INDIA PVT LTD, 'RDMA' 10 GST Road, Chennai 600 016, India TEL:INT: +91 44 43800899

Page 1 of 2

CE CERTIFICATE
EN 10255:2004+A1:2007
10139-2017-CE-IND-Rev.2
(Bhuj Plant)



DNV

MATERIAL MANUFACTURE CERTIFICATE

This is to verify that:

Surya Roshni Limited
Survey No.188, Anjar Mundra Highway, Vill: Bhuvad, tal: Anjar, Dist: Kutch, PIN-370130, India

for

Non-Alloy Welded Steel Tubes for Pressure Purposes

has implemented and is maintaining a certified quality assurance system which has undergone a specific assessment for materials for applications covered by Directive 2014/68/EU on pressure equipment, and is found to comply with Annex I, section 4.3, for acceptance of type 3.1 material certificates according to EN 10204:2004

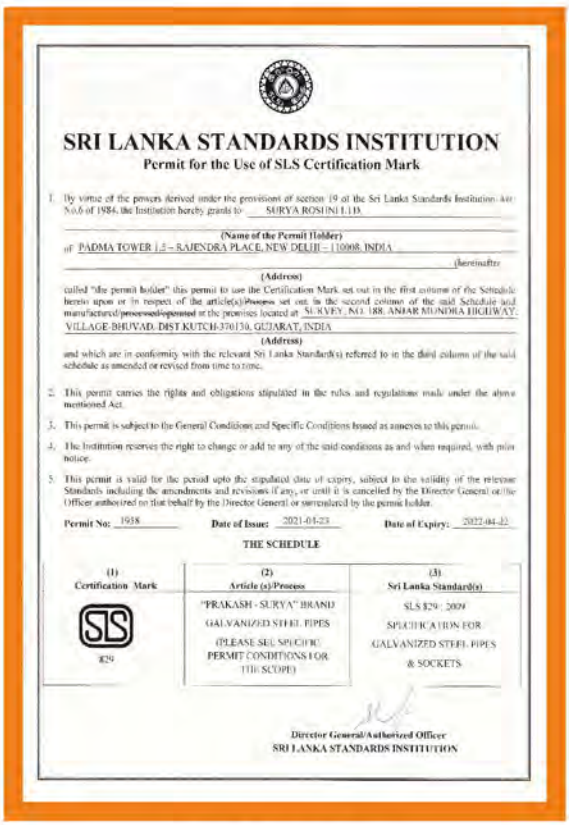
Further details are given in the following pages

Place and date:
Vimercate, 03 June, 2021

For the issuing office:
DNV GL Business Assurance Italia S.r.l.

Nicola Pitotto
Management Representative

PED CERTIFICATE
EN 10217-1:2019
10000354153-PA-IND-DNV
(Bhuj Plant)



SRI LANKA STANDARDS INSTITUTION
Permit for the Use of SLS Certification Mark

1. By virtue of the powers derived under the provisions of section 19 of the Sri Lanka Standards Institution Act No.6 of 1984, the Institution hereby grants to SURYA ROSHNI LTD.

(Name of the Permit Holder)

of PADMA TOWER 1,5 – RAJENDRA PLACE, NEW DELHI – 110008, INDIA (hereinafter

(Address)

called "the permit holder" this permit to use the Certification Mark set out in the first column of the Schedule hereto upon or in respect of the article(s)/process set out in the second column of the said Schedule and manufactured/processed/operated at the premises located at SURVEY NO. 188, ANJAR MUNDRA HIGHWAY, VILLAGE-BHUVAD, DIST.KUTCH-370130, GUJARAT, INDIA

(Address)

and which are in conformity with the relevant Sri Lanka Standard(s) referred to in the third column of the said schedule as amended or revised from time to time.

2. This permit carries the rights and obligations stipulated in the rules and regulations made under the above mentioned Act.
3. This permit is subject to the General Conditions and Specific Conditions issued as annexes to this permit.
4. The Institution reserves the right to change or add to any of the said conditions as and when required, with prior notice.
5. This permit is valid for the period upto the stipulated date of expiry, subject to the validity of the relevant Standards including the amendments and revisions if any, or until it is cancelled by the Director General or his Officer authorized on that behalf by the Director General or surrendered by the permit holder.

Permit No: 1958 Date of Issue: 2021-04-23 Date of Expiry: 2022-04-22

THE SCHEDULE

(1) Certification Mark	(2) Article (s)/Process	(3) Sri Lanka Standard(s)
SLS 829	"PRAKASH - SURYA" BRAND GALVANIZED STEEL PIPES (PLEASE SEE SPECIFIC PERMIT CONDITIONS FOR THE SCOPE)	SLS 829 : 2009 SPECIFICATION FOR GALVANIZED STEEL PIPES & SOCKETS

Director General/Authorized Officer
SRI LANKA STANDARDS INSTITUTION

SLS CERTIFICATE
SLS 829:2009

Under renewal for change of name, all the renewed certificates would be provided upon request.



ACTIVFIRE

Certificate of Conformity

Certificate num:	Registration date	Version	Valid until
afp - 2977	12-Jun-2015	10	30-Apr-2022

Page 1 of 3

Product designation

Surya, AS 1074 Series, steel fire protection pipe

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Surya Roshni Limited
Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

Registrant

Surya Roshni Limited
Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

Producer

Surya Roshni Limited
Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

Conformance criteria and evaluation

The Surya, AS 1074 Series, steel fire protection pipe has been evaluated and verified as conforming with the relevant requirements of the following criteria:

1. Australian Standard AS 1074-1989, 'Steel tubes and tubulars for ordinary service'

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are extract from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following:

i. System design and installation shall be determined and verified in accordance with the performance and prescribed requirements of the regulations, standards and criteria as specified by the building code and authorities having jurisdiction.

ii. System design and installation requirements may specify a minimum wall thickness that precludes the use of some of the scheduled pipe sizes for certain applications and locations.

iii. The dimensional and mechanical compatibility of pipes must be verified with the sizes of components by which they are connected or to which they connect.

Issued by

Daniel Whittaker
Executive Officer—ActivFire Scheme

© CSIRO Australia, 2021

Activ Fire
Certificate: afp - 2977



GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
DIRECTORATE GENERAL OF FOREIGN TRADE

Certificate of Recognition

M/s SURYA ROSHNI LIMITED

and Income Tax PAN AAACS1910C

are hereby accorded the status of Three Star Export House in accordance with the provisions of the Foreign Trade Policy, 2015-2020. This Certificate is valid for a period of 5 years effective from 10/06/2021 to 10/06/2026 subject to the conditions prescribed in Para 3.20(b) of the Hand Book of Procedures (2015-2020).

Dated (Date 02/12/2021)

VIJAY KUMAR

Place DELHI

Additional DGFT

Signature valid

This document has been digitally signed by NEERAJ SHARMA, FTDO,RA DELHI on 06-Dec-2021.

Three Star Certificate
of Recognition
(Export House)



ACTIVFIRE

Certificate of Conformity

Certificate num:	Registration date	Version	Valid until
afp - 3206	1-Dec-2017	6	30-Apr-2022

Page 1 of 2

Product designation

Surya, ASTM A135/A53 Series, Schedule 10, steel fire protection pipe

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Surya Roshni Limited
Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

Registrant

Surya Roshni Limited
Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

Producer

Surya Roshni Limited
Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

Conformance criteria and evaluation

The Surya, ASTM A135/A53 Series, Schedule 10, steel fire protection pipe has been evaluated and verified as conforming with the relevant requirements of the following criteria:

1. ASTM A53/A53M, 'Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless'.
2. ASTM A135/A135M, 'Standard Specification for Electric-Resistance-Welded Steel Pipe'.
3. Underwriters Laboratories - Evaluations and listing, 'UL listing'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are extract from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following:

i. System design and installation shall be determined and verified in accordance with the performance and prescribed requirements of the regulations, standards and criteria as specified by the building code and authorities having jurisdiction.

(Limitations/conditions of conformance continue)

Issued by

Daniel Whittaker
Executive Officer—ActivFire Scheme

© CSIRO Australia, 2021

Activ Fire
Certificate: afp - 3206

Under renewal for change of name, all the renewed certificates would be provided upon request.

PRAKASH
SURYA
Steel Tubes & Pipes



FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems
(see attached listing)

Prepared for:	Manufactured by:
Surya Global Steel Tubes Ltd. Survey No. 188, Anjar Mundra Highway, Village - Bhuvad, Dist - Kutch, P.C. 370130, India	Surya Roshni Ltd. Survey No. 188, Anjar Mundra Highway, Village - Bhuvad, Taluka-Anjar, Dist - Kutch, Gujarat P.C. 370110, India

FM Approvals Class: 3630

Approval Identification: 0003047635 — Date Approved: May 15, 2013
Superseded by: 03212866 — Date Approved: February 15, 2018

To verify the availability of this Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

FM Approvals

David B. Fuller
VP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA

Page 1 of 3

FM CERTIFICATE No.: 0003047635
(Bhuj Plant)



American Petroleum Institute

Certificate of Authority to use the Official API Monogram
License Number: 5L-0222 ORIGINAL

The American Petroleum Institute hereby grants to

SURYA ROSHNI LTD.
Delhi-Rohatak Road, Prakash Nagar
Bahadurgarh, Haryana
India

this right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-5L** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5L-0222**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Manufacturer of Line Pipe Plain End at PSL 1 - Manufacturer of Line Pipe Plain End at PSL 2 – Service Annex H - Type of Pipe: HFW / Delivery Condition: M / Max. Grade: X70, Manufacturer of Line Pipe Plain End at PSL 2, Manufacturer of Line Pipe Plain End at PSL 2 – Service Annex J - Type of Pipe: HFW / Delivery Condition: M / Max. Grade: X60

QMS Exclusions: Design and Development, Servicing

Effective Date: JULY 2, 2020
Expiration Date: JULY 2, 2023

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President, Global Industry Services

API 5L License No.: 0222
(Bahadurgarh Plant)



American Petroleum Institute

Certificate of Authority to use the Official API Monogram
License Number: 5CT-1378 ORIGINAL

The American Petroleum Institute hereby grants to

SURYA ROSHNI LIMITED
Survey #188, Village Bhuvad
Anjar Mundra Highway
Taluka Anjar, Gujarat
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-5CT** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with the certificate number: **5CT-1378**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Manufacture of Electric-Welded Casing or Tubing (Plain End) H40, PSL 1, J55, PSL 1, K55, PSL 1

QMS Exclusions: Design and Development; Servicing

Effective Date: MAY 10, 2022
Expiration Date: MAY 10, 2025

To verify the authenticity of this license, go to www.api.org/compositelist.

Senior Vice President of Global Industry Services

API 5CT License No.: 1378
(Bhuj Plant)



American Petroleum Institute

Certificate of Authority to use the Official API Monogram
License Number: 5L-0794 ORIGINAL

The American Petroleum Institute hereby grants to

SURYA ROSHNI LIMITED
Survey #188, Village Bhuvad
Anjar Mundra Highway
Taluka Anjar, Gujarat
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-5L** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5L-0794**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Manufacturer of Line Pipe Plain End at PSL 1 - Type of Pipe: SAWH / Delivery Condition: M / Max. Grade: X70, Delivery Condition: N / Max. Grade: X70 and / Delivery Condition: M / Max. Grade: X60, Manufacturer of Line Pipe Plain End at PSL 2 - Type of Pipe: SAWH / Delivery Condition: M / Max. Grade: X70, Delivery Condition: N / Max. Grade: X70 and / Delivery Condition: M / Max. Grade: X60, Manufacturer of Line Pipe Plain End at PSL 2 - Service Annex H - Type of Pipe: HFW / Delivery Condition: N / Max. Grade: X70 and / Delivery Condition: M / Max. Grade: X60 and / Delivery Condition: N / Max. Grade: X52 - Type of Pipe: SAWH / Delivery Condition: M / Max. Grade: X60 and / Delivery Condition: N / Max. Grade: X52, Manufacturer of Line Pipe Plain End at PSL 2 - Service Annex J - Type of Pipe: HFW / Delivery Condition: M / Max. Grade: X60 and / Delivery Condition: N / Max. Grade: X52 - Type of Pipe: SAWH / Delivery Condition: M / Max. Grade: X60 and / Delivery Condition: N / Max. Grade: X52

QMS Exclusions: Design and Development; Servicing

Effective Date: MAY 10, 2022
Expiration Date: MAY 10, 2025

To verify the authenticity of this license, go to www.api.org/compositelist.

Senior Vice President, Global Industry Services

API 5L License No.: 0794
(Bhuj Plant)

Bureau of Indian Standards

Bureau of Indian Standards has given us the BIS Certification Mark License to use the standard mark on steel pipes for the following specifications.

IS	1239 (part - 1)	IS	3589
IS	4270	IS	1161
IS	4923	IS/ISO	3183
IS	3601	IS	9295
IS	9537 (part - 2)	IS	2713 (part1-3)
IS	5504		

मानक पथ प्रदर्शक

The following Third Party Inspection Agencies who inspect /assess our products on behalf of our various clients like IOCL, Oil India, BPCL, HPCL, BHEL, NTPC, ONGC, GAIL, L&T, Reliance, Railways etc.

- Lloyd's Register of Industrial Service
- Engineers India Limited (EIL)
- Bureau Veritas
- Projects & Development India Limited (PDIL)
- SGS India
- Mecon
- TUV
- ABSIV
- DNV
- INTERTEK
- IRS
- CEIL
- WAPCOS
- RITES & many other reputed national and international agencies.

Product Strength & Advantages



Prakash Surya Pipes are made from only high quality tested HR Coils from major steel producers.



Prakash Surya Pipes are galvanised with high grade zinc from Hindustan Zinc to provide rust free long service and clean drinking water always.



Prakash Surya Pipes are perfectly circular in shape, ensuring better threading and easier tight socket fitting.



High quality Prakash Surya sockets meet the stringent standards of strength, thread, depth, gauge and finish.



Prakash Surya Pipes conform strictly to National & International specifications regarding diameter control and fin height making them ideal for agricultural and building applications.



Prakash Surya Pipes are given a special varnish coating to prevent rusting during shipment & storage.



Prakash Surya Pipes can withstand pressure several times more than the normal pressure required hence, long lasting.



To ensure easy identification Prakash Surya Pipes have a double color band that is registered as a trademark.



Every pipe of Prakash Surya carries the ISI mark.



Prakash Surya Pipes always offer superior quality at most competitive prices, thus value for money product.



ERW PIPES



Water Pipelines

Water Mains, Plumbing, Sewerage Systems,
STP, WTP, Fire, HVAC,
Industrial Water Lines, Plant Piping.
IS:1239, IS:3589, ASTM A 53, JIS G 3444,
EN 10255, EN 10217-1, AS:1074,
ASNZ:1163:2016



Agriculture & Irrigation

Deep Tube-Wells & Casing Pipes.
IS:4270



Construction Industries

Scaffolding & Structural Purposes.
IS:1161, IS:4923, EN 39,
EN 10219- Part 1 & 2, AS NZ 1163:2016
ASTM A 500
Electrical Poles & Telecom Tower (IS:1161)

ERW



Oil API Pipelines

Oil Refinery Piping, Crude Oil Piping
Cross-Country Pipeline
API 5L (PSL 1 & PSL 2), IS/ISO :3183



Gas API Pipelines

Pipelines for Natural Gas, LPG,
Domestic Gas line (home to home)CGD
IS :1239 and other Non-Toxic Gases.
API 5L (PSL 1 & PSL 2),
IS/ISO 3183, JIS G 3444

SPECIFICATIONS & APPLICATIONS

The products conform to the following
National & International specifications



Power Projects

Ash Handling System, LP Piping, API 5L
IS:3589, IS:1239



Fire Fighting System

ASTM A 53, ASTM A 795
IS:3589, IS:1239

PIPES

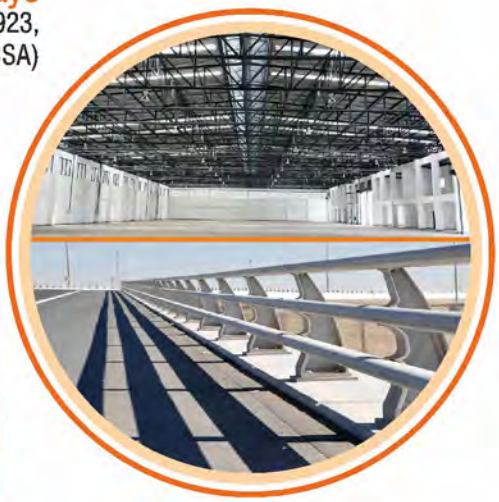


Sugar Industries

Steel Tubes for Mechanical &
General Engineering Purposes.
(IS:3601, BS:1775, ASTM A513)

Warehouses & Highways

(ASTM A500, EN10219, IS 4923,
AS/NZS1163, CSA)





Other Purposes

Supply of Exhaust Piping,
Cold Storage Industry,
LPG Cylinder Supporting Rings. (IS:1239)
Steel Tubes for Idlers &
Belt Conveyors (IS:9295),
Electrical Poles &
Telecom Tower (IS:1161),
Tubular Swaged Poles IS 2713:1980
HVAC (Heating Ventilation Air-Conditioning)

PRAKASH SURYA
Steel Tubes & Pipes

ERW Steel Tubes for ordinary uses in Water, Non Hazardous Gases, Air and Steam

Conforming To IS 1239 (PART-1): 2004

N.B. & SERIES		OUTSIDE DIAMETER		WALL THICKNESS		NOMINAL WEIGHT BLACK TUBES				NOMINAL WEIGHT GALVANIZED TUBES				SOCKETS	
						PLAIN END		SCREWED & SOCKETED		PLAIN END		SCREWED & SOCKETED		MIN. O.D.	MIN. LENGTH
MM		Min. MM	Max. MM	MM	SWG	KG/M	M/ TONNE	KG/M	M/ TONNE	KG/M	M/ TONNE	KG/M	M/ TONNE	MM	MM
15	L	21.0	21.4	2.00	14	0.947	1056	0.956	1043	0.990	1010	1.002	998	27.0	37.0
	M	21.0	21.8	2.60	12	1.21	827	1.22	822	1.25	800	1.260	794		
	H	21.0	21.8	3.20	10	1.44	695	1.45	691	1.48	676	1.489	671		
20	L	26.4	26.9	2.30	13	1.38	726	1.39	718	1.43	694	1.448	690	32.5	39.0
	M	26.5	27.3	2.60	12	1.56	641	1.57	636	1.61	624	1.628	614		
	H	26.5	27.3	3.20	10	1.87	535	1.88	530	1.92	521	1.939	516		
25	L	33.2	33.8	2.60	12	1.98	505	2.00	498	2.05	488	2.077	482	39.5	46.0
	M	33.3	34.2	3.20	10	2.41	415	2.43	411	2.48	404	2.501	400		
	H	33.3	34.2	4.00	8	2.93	341	2.95	338	3.00	334	3.022	331		
32	L	41.9	42.5	2.60	12	2.54	394	2.57	388	2.63	380	2.669	375	49.0	51.0
	M	42.0	42.9	3.20	10	3.10	323	3.13	319	3.19	313	3.227	310		
	H	42.0	42.9	4.00	8	3.79	264	3.82	261	3.88	258	3.920	255		
40	L	47.8	48.4	2.90	11	3.23	310	3.27	305	3.33	300	3.383	296	56.0	51.0
	M	47.9	48.8	3.20	10	3.56	281	3.60	277	3.66	273	3.709	270		
	H	47.9	48.8	4.00	8	4.37	229	4.41	226	4.47	224	4.518	221		
50	L	59.6	60.2	2.90	11	4.08	245	4.15	241	4.21	238	4.277	234	68.0	60.0
	M	59.7	60.8	3.60	9	5.03	199	5.10	196	5.16	194	5.234	191		
	H	59.7	60.8	4.50	7	6.19	161	6.26	160	6.32	158	6.390	156		
65	L	75.2	76.0	3.20	10	5.71	175	5.83	172	5.88	170	5.992	167	84.0	69.0
	M	75.3	76.6	3.60	9	6.42	156	6.54	153	6.59	152	6.702	149		
	H	75.3	76.6	4.50	7	7.93	126	8.05	124	8.09	124	8.206	122		
80	L	87.9	88.7	3.20	10	6.72	149	6.89	145	6.91	145	7.081	141	98.0	75.0
	M	88.0	89.5	4.00	8	8.36	120	8.53	117	8.55	117	8.725	115		
	H	88.0	89.5	4.80	6	9.9	101	10.10	99	10.13	99	10.300	97		
100	L	113.0	113.9	3.60	9	9.75	103	10.00	100	10.00	100	10.248	98	124.0	87.0
	M	113.1	115.0	4.50	7	12.2	82	12.50	80	12.40	80	12.657	79		
	H	113.1	115.0	5.40	5	14.5	69	14.80	68	14.71	68	14.966	67		
125	M	138.5	140.8	4.80	6	15.90	63	16.40	61	16.27	62	16.654	60	151.0	96.0
	H	138.5	140.8	5.40	5	17.9	56	18.40	55	18.18	55	18.568	54		
150	M	163.9	166.5	4.80	6	18.90	53	19.50	51	19.35	52	19.841	50	178.0	96.0
	H	163.9	166.5	5.40	5	21.3	47	21.90	46	21.64	46	22.133	45		

TOLERANCES

A. Thickness
1. Light Tubes + not limited, - 8%
2. Medium and Heavy Tubes + not limited, - 10%

B. Weight
1. Single Tube (Light series) + 10%, - 8%
2. Single Tubes (Medium and Heavy series) ± 10%
3. For quantities per load of 10 tonnes minimum (Light series) + 7.5%, - 5%
4. For quantities per load of 10 tonnes minimum (medium and heavy series) ± 7.5%

C. Length
Unless otherwise specified 4 to 7 meters



PRAKASH SURYA
Steel Tubes & Pipes

Large Dia ERW Pipes

ERW STEEL PIPES FOR WATER AND SEWAGE PURPOSES
CONFORMING TO IS 3589:2001
(GRADE FE 330 FE 410 AND FE 450)

OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT (PLAIN END)	
MM	MM	KG/M	M/TONNE
168.3	2.6 3.2 4.0 4.5	10.6 13.0 16.2 18.2	94 77 62 55
219.1	2.6 3.6 4.5 6.3	13.9 19.1 23.8 33.1	72 52 42 30
273	3.6 4.0 5.0 6.3	23.9 26.5 33 41.4	42 38 30 24
323.9	4.0 4.5 5.6 7.1	31.6 35.4 44 55.5	31 28 23 18
355.6	4.0 5.0 5.6 8.0	34.7 43.2 48.3 68.6	29 23 21 15
406.4	4.0 5.0 6.3 8.8	39.7 49.5 62.2 86.3	25 20 16 12

A - PHYSICAL PROPERTIES

Grade	Y.S. MPa (min)	T.S. MPa (min)	% age Elongation (min)
FE 330	195	330	20
FE 410	235	410	18
FE 450	275	450	15

B - TOLERANCES

i) Outside diameter of ERW pipe ± 0.75%

ii) Thickness ± 10%

iii) Unless otherwise specified, lengths are in single random lengths from 4 to 7 meters and double random lengths from 7 to 14 meters.

ERW STEEL PIPES FOR WATER WELLS (CASING PIPES)
CONFORMING TO IS 4270:2001
(FE 410 AND FE 450)

N.B. AND SERIES	OUTSIDE DIAMETER	THICK-NESS	NOMINAL WEIGHT BLACK TUBES PLAIN END
MM	MM	MM	KG/M
100	114.3	5.0	13.48
125	141.3	5.0	16.80
150	168.3	5.0	20.13
175	193.7	5.4	25.10
200	219.1	5.4	28.46
225	244.5	6.0	35.29
250	273.1	7.1	46.57
300	323.9	7.1	55.47
350	355.6	8.0	68.57
350	355.6	10.0	85.22
350	355.6	12.0	101.67
400	406.4	8.0	78.60
400	406.4	10.0	97.75
400	406.4	12.0	116.71

A - PHYSICAL PROPERTIES

Grade	Y.S. MPa (min)	T.S. min MPa (min)	% age Elongation (Min)
FE 410	235	410	15
FE 450	275	450	13

B - TOLERANCES

i) Outside diameter of pipe ± 1.0%

ii) Thickness + 15%
upto 406.4mm OD - 12.5%

iii) Weight + 10%
Single Tube - 8%

iv) Length unless otherwise specified 4 to 7 mtrs





PRAKASH SURYA
Steel Tubes & Pipes

Dimensions & Nominal Masses

ERW Steel Tubes For Idlers Belt Conveyors

CONFIRMING TO IS 9295:1983 (GRADE YSt 210, YSt 240, YSt 310)

OUTSIDE DIAMETER MM	WALL THICKNESS MM	MASS Kg/Mtr.	Mtrs./ TONNE
63.50	3.65	5.39	186
	4.05	5.87	170
	4.50	6.55	153
	4.85	7.01	143
76.10	3.65	6.52	153
	4.05	7.20	139
	4.50	7.95	126
	4.85	8.52	117
88.9	4.05	8.47	118
	4.50	9.36	107
	4.85	10.05	99
	5.40	11.12	90
101.60	4.05	9.74	103
	4.50	10.78	93
	4.85	11.57	86
	5.40	12.81	78
114.30	4.50	12.19	82
	4.85	13.09	76
	5.40	14.50	69
	6.30	16.78	60

OUTSIDE DIAMETER MM	WALL THICKNESS MM	MASS Kg/Mtr.	Mtrs./ TONNE
139.70	4.50	15.00	67
	4.85	16.13	62
	5.40	17.90	56
	6.30	20.73	48
152.40	4.50	16.40	61
	4.85	17.65	57
	5.40	19.50	51
	6.30	22.70	44
165.10	4.50	17.80	56
	4.85	19.17	52
	5.40	21.27	47
	6.30	24.67	41
168.30	4.50	18.20	55
	4.85	19.55	51
	5.40	21.69	46
	6.30	25.17	40
219.10	5.40	28.50	35
	6.30	33.06	30
	7.10	37.12	27

A - PHYSICAL PROPERTIES

GRADE	Y.S. MPa (min)	T.S. MPa (min)	% AGE ELONGATION (Min)
ERW 210	210	330	20
ERW 240	240	410	18
ERW 310	310	450	15

B- TOLERANCES

Outside Diameter	± 0.8%
Ovality below 168.3mm OD	0.5mm
Ovality including 168.3mm and above	1.0mm
Weight Kg/Mtr: Single Tube	± 10%
For truck load of ten tonnes	± 7.5%
Thickness	± 10%



Dimensions & Design Properties of

ERW STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSE

CONFIRMING TO IS 3601:2006 (GRADE WT 160 & WT 210, WT 240, WT 310)

Outside Diameter mm 1	Thick-ness mm 2	Mass KG/M 3	Area of Cross Section cm 4	Moment of Inertia cm 5	Modulus of Sections cm 6	Radius of Gyration cm 7
21.3	1.8	0.866	1.10	0.53	0.50	0.69
	2.0	0.952	1.21	0.57	0.54	0.69
	2.6	1.20	1.53	0.68	0.64	0.67
	3.2	1.43	1.82	0.77	0.72	0.65
26.9	1.8	1.11	1.42	1.12	0.83	0.89
	2.0	1.23	1.56	1.22	0.91	0.88
	2.3	1.40	1.78	1.36	1.01	0.87
	2.6	1.56	1.98	1.48	1.10	0.86
	3.2	1.87	2.38	1.70	1.27	0.85
33.7	2.0	1.56	1.99	2.51	1.49	1.12
	2.3	1.78	2.27	2.81	1.67	1.11
	2.6	1.99	2.54	3.09	1.84	1.10
	3.2	2.41	3.07	3.60	2.14	1.08
	4.0	2.93	3.73	4.19	2.49	1.06
42.4	2.3	2.27	2.90	5.85	2.76	1.42
	2.6	2.55	3.25	6.46	3.05	1.41
	3.2	3.09	3.94	7.62	3.59	1.39
	3.6	3.44	4.39	8.33	3.93	1.38
	4.0	3.79	4.83	8.90	4.24	1.36
48.3	2.3	2.61	3.32	8.80	3.64	1.63
	2.6	2.93	3.73	9.77	4.05	1.62
	2.9	3.25	4.14	10.70	4.43	1.61
	3.2	3.56	4.53	11.59	4.80	1.60
	3.6	3.97	5.05	12.69	5.25	1.59
	4.0	4.37	5.57	13.77	5.70	1.57
60.3	2.3	3.29	4.19	17.65	5.85	2.05
	2.6	3.70	4.71	19.64	6.51	2.04
	2.9	4.11	5.23	21.59	7.16	2.03
	3.2	4.51	5.74	23.47	7.78	2.02
	3.6	5.03	6.41	25.87	8.58	2.01
	4.0	5.55	7.07	28.15	9.34	2.00
	4.5	6.19	7.89	30.90	10.20	1.98
76.1	2.6	5.24	6.00	40.57	10.66	2.60
	2.9	5.75	6.67	44.74	11.76	2.59
	3.2	6.44	7.33	48.78	12.80	2.58
	3.6	7.11	8.20	54.01	14.20	2.57
	4.5	7.95	10.10	65.12	17.10	2.54
	5.0	8.77	11.16	70.87	18.63	2.52
88.9	2.9	6.15	7.83	72.47	16.30	3.04
	3.2	6.76	8.62	79.21	17.80	3.03
	4.0	8.38	10.70	96.34	21.70	3.00
	5.0	10.30	13.20	116.40	26.20	2.97
	5.4	11.10	14.00	123.80	27.80	2.97
	5.6	11.50	14.65	127.64	28.72	2.95
101.6	3.6	8.70	11.10	133.20	26.20	3.47
	4.0	9.63	12.30	146.20	28.80	3.45
	5.0	11.90	15.20	177.50	34.90	3.42
114.3	3.2	8.77	11.16	172.33	30.15	3.93
	3.6	9.83	12.50	192.00	33.60	3.92
	4.5	12.20	15.50	234.30	41.00	3.89
	5.4	14.50	18.50	274.50	48.00	3.86
	6.3	16.80	21.20	315.00	55.10	3.83
139.7	3.60	12.10	15.38	356.36	51.02	4.81
	4.00	13.40	17.04	392.57	56.20	4.80
	4.50	15.00	19.10	437.20	62.60	4.78
	5.00	16.60	21.20	480.50	68.80	4.77
	5.40	17.90	22.80	514.50	73.70	4.75
	6.30	20.70	26.30	591.00	84.70	4.73
152.4	4.50	16.40	20.90	572.20	75.10	5.23
	5.00	18.20	23.20	629.50	82.60	5.21
	5.40	19.60	24.90	674.50	88.50	5.20
165.1	4.50	17.80	22.70	732.60	88.70	5.68
	5.00	19.70	25.10	806.60	97.70	5.66
	5.40	21.20	27.10	864.70	105.00	5.65
	6.30	24.80	31.40	992.00	120.00	5.63
168.3	4.00	16.20	20.64	696.87	82.81	5.81
	4.50	18.20	23.20	777.20	98.40	5.79
	5.00	20.10	25.70	855.80	102.00	5.78
	5.40	21.70	27.60	917.70	109.00	5.76
	6.30	25.20	32.10	1053.00	125.00	5.73
	7.10	28.20	35.94	1169.66	139.00	5.70
	8.00	31.60	39.70	1288.00	153.00	5.69
193.7	5.00	23.30	29.60	1320.00	136.00	6.67
	5.40	25.10	31.90	1417.00	146.00	6.66
	5.90	27.30	34.80	1536.00	159.00	6.64
	6.30	29.10	37.00	1600.00	165.00	6.60
	8.00	36.60	46.30	2004.00	207.00	6.57
219.1	4.5	23.80	30.32	1746.18	159.40	7.59
	5.0	26.40	33.60	1928.00	176.00	7.57
	5.6	29.50	37.60	2142.00	195.00	7.56
	6.3	33.10	42.00	2404.00	219.00	7.54
	8.0	41.60	52.00	1940.00	268.00	7.52

A - PHYSICAL PROPERTIES

Grade	Y.S. MPa (min)	T.S. MPa (min)	% age Elongation (Min.)	
			As welded (less than or equal to 33.7mm OD)	As welded (more than 33.7mm OD)
WT160	160	310	15	22
WT210	210	330	12	20
WT240	240	410	10	15
WT 310	310	450	6	10

Provide in BLK, HDG, CR, GP finishing quality

Note:

- The tolerance of thickness excluding the weld shall be ± 10%.
- Sizes other than specified above may be supplied as per customer requirement.

STRUCTURAL STEEL HOLLOW SECTIONS (RHS, SHS, CHS)



Wide Range Applications

- **INFRASTRUCTURE**
  Airport | Metro | Railway | Tower Sector | Solar Power Structure | Bridge | Defence Hanger | Telecom Tower etc.
- **INDUSTRIAL APPLICATIONS**
  Industrial Sheds | Scaffolding | Warehouse | Mines Steel/Power/ Refinery Industries | PEB and Porta Cabin.
- **GENERAL ENGINEERING**
  Truck, Bus Body & Other Commercial Vehicles
  Sign Post Commercial Residential Building
  Farm Implements and Equipments



INTRODUCED

DFT

Direct Forming Technology

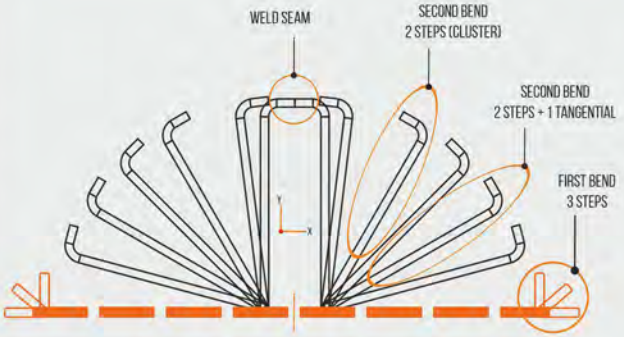


New technology always aims to simplify the process and save the time and labour. Surya introduces the best in class Direct Forming Technology (DFT), paving an innovative route of high tech designed methodology to produce ERW Structural Steel Section Pipes. This technology sizably reduces the time of producing customized hollow section by including it into mill range without changing the roll. Being a completely automatic and computerized process, DFT saves the setup time, makes operation setting accurate, easy and efficient. Compared to traditional production processes, this method is completely automatic and computerized all PLC control with DC digital control system only to motorize the roller movement during the size changes.

DFT not only saves time from setting up rollers, it also cut shorts the process of forming rectangular/square sections. It is a direct square or rectangle roll forming machine. In traditional setup, all sections (Square/Rectangle) pipes used to be made out of round pipes. That means until weld rolls you have a round tube and after that you make square or rectangle out of it. this has been changed, new DFT standard directly start corners forming from the 1st pass itself.

Advantages of DFT

- **Speeds up the Hollow section formation:-** Providing a customized hollow sections for architects won't be that difficult a task.
- **Just in time Delivery:-** In this technology size change over time will be reduced substantially, which leads to fast change over all sizes resultantly quick delivery to the costumer, even in small lots.
- Since the process is autonomous & computer measured, Perfect pipe quality with perfect dimensions and corner radius control is assured.
- Proven design.
- Easy to operate and maintain.
- High automation level.
- Orbital cold saw for burr free end cutting to ensure faster delivery of order even in small lots also.



Design of Section Pipe

Information about Specification, Grades and Sizes covered under DFT

Specification	Grades	Sizes covered in SHS	Sizes covered in RHS
IS 4923:2017, ASTM A500/A500M-21, CSA, EN 10219-1&2 & AS/NZS 1163:2016	YSt 210, 240, 310,355 A 500-Gr.B C & D, S235, S275, S355, G40.20-13/ G40.21-13	150 x 150 x 3 to 8 mm 160 x 160 x 3 to 8 mm 180 x 180 x 3 to 10 mm 190 x 190 x 4 to 10 mm 200 x 200 x 4 to 12.7 mm 210 x 210 x 5 to 12.7 mm 220 x 220 x 5 to 12.7 mm 250 x 250 x 5 to 12.7 mm 280 x 280 x 5 to 12.7 mm 300 x 300 x 5 to 12.7 mm	150 x 200 x 4 to 12.7 mm 150 x 250 x 5 to 12.7 mm 150 x 300 x 5 to 12.7 mm 180 x 260 x 5 to 12.7 mm 200 x 300 x 5 to 12.7 mm 210 x 310 x 5 to 12.7 mm 200 x 400 x 5 to 12.7 mm 250 x 350 x 5 to 12.7 mm

Note: Sizes other than mentioned in table can also be customized.

Information about Raw Material to be used and Mechanical Properties of Sizes covered under DFT :

- **Raw Material:-** As per the Specification.
- **Thickness Range:-** From 3 mm (0.118 Inch) to 12.70 mm (0.500 Inch)
- **Standard Length** Supply 6 to 15 meters as per customer requirement in IS 4923:2017 (Any Length) with Tolerance +6 mm, -0 mm.

Mechanical Properties are as under :

Grades	Yield Strength (min) in MPA	Tensile Strength (min) in MPA	Elongation%
YSt 210	210	330	20
YSt 240	240	410	15
YSt 310	310	450	10
YSt 355	355	490	10



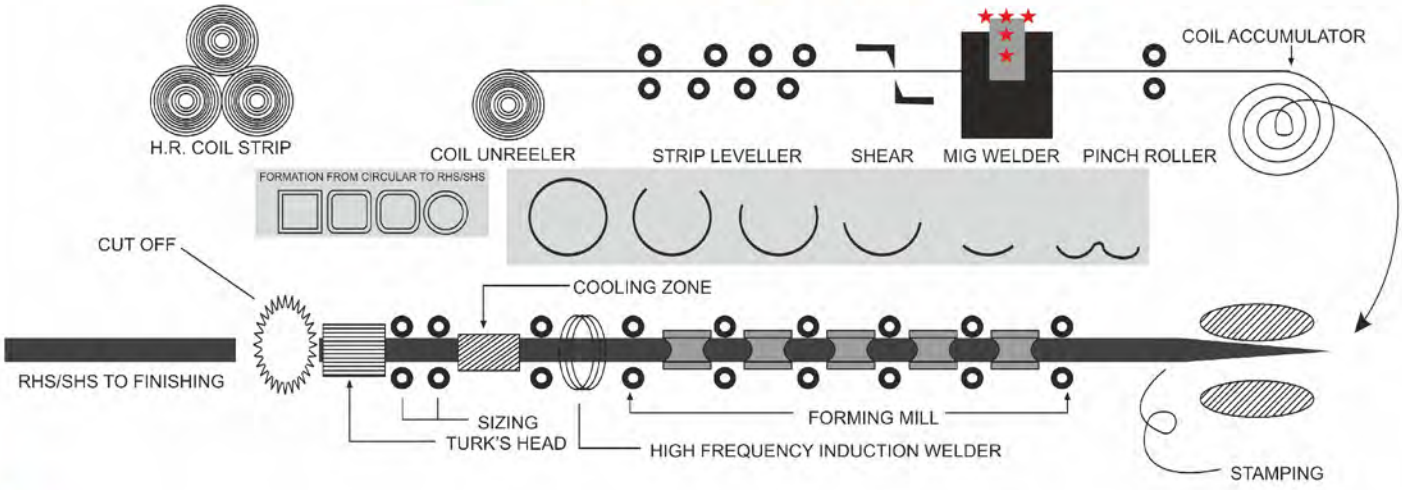
For Structural Usage SHS / RHS / CHS

IS 4923:2017, IS 1161:2014, EN10219-1 & 2 , AS/NZS 1163 :2016 , ASTM A 500/A500 M -21, CSA G40.20/21-13, Grade YSt 210, YSt 240, YSt 310, YSt 355

Structural Steel Hollow Sections

Surya Group has wide range of Structural Steel Hollow Sections under various grades YSt 210/240/310/355 at works. Along with standard sizes we also manufacture extra light series (up to 1mm thickness) sections. We keep finish goods for all regular sizes and thus require low lead time for delivery. Surya's product development/application team continuously assess the needs of the market to develop new sizes/value added products such as Hot Dip Galvanized, HRPO, CR and GP Section. Surya's distributors keep stock at their end to service day to day fabrication jobs.

Manufacturing Process



PRAKASH SURYA
Steel Tubes & Pipes

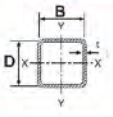
Dimensions Properties Of
SQUARE HOLLOW SECTIONS (SHS) FOR STRUCTURAL PURPOSE

CONFIRMING TO IS 4923:2017 (GRADE YSt 210, YSt 240, YSt 310, YSt 355)

Size SHS (DxWxT)	DEPTH (D)	WIDTH (B)	THICKNESS (t)	WEIGHT	AREA OF SECTION	MOMENT OF INERTIA	RADIUS OF GYRATION	ELASTIC MODULUS	PLASTIC MODULUS
mm	mm	mm	mm	kg/m	cm2	cm4	cm	cm3	cm3
20 x 20 x 2	20	20	2.00	1.15	1.33	0.58	0.68	0.61	0.61
20 x 20 x 2.6	20	20	2.60	1.46	2.17	0.63	0.66	0.66	0.66
25 x 25 x 2	25	25	2.00	1.36	1.74	1.48	0.92	1.19	1.47
25 x 25 x 2.6	25	25	2.60	1.69	2.16	1.72	0.89	1.38	1.76
25 x 25 x 3.2	25	25	3.20	1.98	2.53	1.89	0.86	1.51	1.98
30 x 30 x 2	30	30	2.00	1.68	2.14	2.72	1.13	1.81	2.21
30 x 30 x 2.6	30	30	2.60	2.10	2,68	3.23	1.10	2.15	2.68
30 x 30 x 3.2	30	30	3.20	2.49	3.17	3.62	1.07	2.41	3.08
32 x 32 x 2.6	32	32	2.60	2.26	2.88	4.02	1.18	2.51	3.11
32 x 32 x 3.2	32	32	3.20	2.69	3.42	4.54	1.15	2.84	3.59
32 x 32 x 4	32	32	4.00	3.19	4.07	5.02	1.11	3.14	4.11
35 x 35 x 2.6	35	35	2.60	2.51	3.20	5.43	1.30	3.10	3.81
35 x 35 x 3.2	35	35	3.20	2.99	3.81	6.18	1.27	3.53	4.42
35 x 35 x 4	35	35	4.00	3.57	4.55	6.93	1.23	3.96	5.11
38 x 38 x 2	38	38	2.00	2.18	2.78	5.88	1.46	3.10	3.70
38 x 38 x 2.6	38	38	2.60	2.75	3.51	7.14	1.43	3.76	4.57
38 x 38 x 3.2	38	38	3.20	3.29	4.19	8.18	1.40	4.30	5.34
38 x 38 x 4	38	38	4.00	3.95	5.03	9.26	1.36	4.87	6.22
40 x 40 x 2	40	40	2.00	2.31	2.94	6.94	1.54	3.47	4.13
40 x 40 x 2.6	40	40	2.60	2.92	3.72	8.45	1.51	4.22	5.12
40 x 40 x 3.2	40	40	3.20	3.49	4.45	9.72	1.48	4.86	6.00
40 x 40 x 4	40	40	4.00	4.20	5.35	11.07	1.44	5.54	7.01
45 x 45 x 2.6	45	45	2.60	3.33	4.24	12.42	1.71	5.52	6.64
45 x 45 x 2.9	45	45	2.90	3.66	4.67	13.45	1.70	5.98	7.25
45 x 45 x 3.2	45	45	3.20	3.99	5.09	14.41	1.68	6.40	7.82
45 x 45 x 4	45	45	4.00	4.83	6.15	16.61	1.64	7.38	9.22
45 x 45 x 4.5	45	45	4.50	5.31	6.77	17.74	1.62	7.88	9.99
49.5 x 49.5 x 2.6	49.5	49.5	2.60	3.69	4.70	16.91	1.90	6.83	8.16
49.5 x 49.5 x 3.2	49.5	49.5	3.20	4.45	5.66	19.74	1.87	7.98	9.67
49.5 x 49.5 x 4	49.5	49.5	4.00	5.39	6.87	212 9	1.83	9.27	11.46
63.5 x 63.5 x 3.2	63.5	63.5	3.20	5.85	7.46	44.35	2.44	13.97	16.65
63.5 x 63.5 x 3.6	63.5	63.5	3.60	6.51	8.29	48.55	2.42	15.29	18.36
63.5 x 63.5 x 4.5	63.5	63.5	4.50	7.93	10.10	57.00	2.38	17.95	21.93
72 x 7.2 x 3.2	72	72	3.20	6.71	8.54	66.32	2.79	18.42	21.80
72 x 72 x 4	72	72	4.00	8.22	10.47	79.03	2.75	21.95	26.32
72 x 72 x 4.8	72	72	4.80	9.66	12.31	90.31	2.71	25.09	30.48
75 x 75 x 3.2	75	75	3.20	7.01	8.93	75.53	2.91	20.14	23.79
75 x 75 x 3.6	75	75	3.60	7.81	9.95	83.06	2.89	22.15	26.32
75 x 75 x 4.5	75	75	4.50	9.55	12.17	98.55	2.85	26.28	31.68
88.9 x 88.9 x 3.2	88.9	88.9	3.20	8.40	10.71	129.40	3.48	29.11	34.11
88.9 x 88.9 x 3.6	88.9	88.9	3.60	9.38	11.95	142.83	3.46	32.13	37.85
88.9 x 88.9 x 4.5	88.9	88.9	4.50	11.52	14.67	170.97	3.41	38.46	45.85

Size SHS (DxWxT)	DEPTH (D)	WIDTH (B)	THICKNESS (t)	WEIGHT	AREA OF SECTION	MOMENT OF INERTIA	RADIUS OF GYRATION	ELASTIC MODULUS	PLASTIC MODULUS
mm	mm	mm	mm	kg/m	cm2	cm4	cm	cm3	cm3
91.5 x 91.5 x 3.6	91.5	91.5	3.60	9.67	12.32	156.49	3.56	34.21	40.24
91.5 x 91.5 x 4.5	91.5	91.5	4.50	11.88	15.14	187.57	3.52	41.00	48.79
91.5 x 91.5 x 4.8	91.5	91.5	4.80	12.60	16.05	197.27	3.51	43.12	51.51
100 x 100 x 4	100	100	4.00	11.73	14.95	226.35	3.89	45.27	53.30
100 x 100 x 5	100	100	5.00	14.41	18.36	271.10	3.84	54.22	64.59
100 x 100 x 6	100	100	6.00	16.98	21.63	311.47	3.79	62.29	75.09
113.5 x 113.5 x 4.5	113.5	113.5	4.50	14.99	19.10	372.88	4.42	65.71	77.32
113.5 x 113.5 x 4.8	113.5	113.5	4.80	15.92	20.28	393.30	4.40	69.30	81.81
113.5 x 113.5 x 5.4	113.5	113.5	5.40	17.74	22.60	432.58	4.38	76.23	90.54
113.5 x 113.5 x 6	113.5	113.5	6.00	19.53	24.87	469.81	4.35	82.79	98.95
125 x 125 x 4.5	125	125	4.50	16.62	21.17	505.83	4.89	80.93	94.84
125 x 125 x 5	125	125	5.00	18.34	23.36	552.62	4.86	88.42	104.09
125 x 125 x 6	125	125	6.00	21.69	27.63	640.89	4.82	102.54	121.86
132 x 132 x 4.5	132	132	4.50	17.61	22.43	600.45	5.17	90.98	106.37
132 x 132 x 4.8	132	132	4.80	18.71	23.83	634.39	5.16	96.12	112.68
132 x 132 x 5.4	132	132	5.40	20.88	26.60	700.11	5.13	106.08	125.01
132 x 132 x 6	132	132	6.00	23.01	29.31	762.98	5.10	115.60	136.97
150 x 150 x 5	150	150	5.00	22.26	28.36	982.12	5.89	130.95	152.97
150 x 150 x 6	150	150	6.00	26.40	33.63	1145.91	5.84	152.79	179.87
150 x 150 x 7	150	150	7.00	30.44	38.78	1299.44	5.79	173.26	205.57
150 x 150 x 8	150	150	8.00	34.38	43.79	1443.00	5.74	192.40	230.09
180 x 180 x 4	180	180	4.00	21.90	27.90	1434.00	7.17	159.00	184.00
180 x 180 x 5	180	180	5.00	27.20	34.60	1755.00	7.12	195.00	226.00
180 x 180 x 6	180	180	6.00	32.05	40.83	2036.00	7.06	226.00	280.00
180 x 180 x 8	180	180	8.00	42.50	54.10	2633.00	6.98	293.00	346.00
220 x 220 x 6	220	220	6.00	39.59	50.43	3813.36	8.70	346.67	402.16
220 x 220 x 8	220	220	8.00	51.96	66.19	4894.99	8.60	445.00	521.67
220 x 220 x 10	220	220	10.00	63.92	81.43	5887.19	8.50	535.20	634.11
220 x 220 x 12	220	220	12.00	75.47	96.14	6793.08	8.41	617.55	739.60
250 x 250 x 6	250	250	6.00	45.24	57.63	5672.00	9.92	453.76	524.43
250 x 250 x 8	250	250	8.00	59.50	75.79	7315.65	9.82	585.25	682.64
250 x 250 x 10	250	250	10.00	73.34	93.43	8841.86	9.73	707.35	832.74
250 x 250 x 12	250	250	12.00	86.77	110.54	10254.21	9.63	820.34	974.87
300 x 300 x 6	300	300	6.00	54.66	69.63	9963.67	11.96	664.24	764.21
300 x 300 x 8	300	300	8.00	72.06	91.79	12925.07	11.87	861.67	998.91
300 x 300 x 10	300	300	10.00	89.04	113.43	15713.90	11.77	1047.59	1223.79
300 x 300 x 12	300	300	12.00	105.61	134.54	18334.49	11.67	1222.30	14'38.98

Note: Apart from above mentioned sizes, we also manufacture customized and need based requirement.



DIMENSIONAL TOLERANCES

SECTION TYPE	GRADE	OUTSIDE DIMENTION	THICK-NESS	SQUARE NESS	CORNER RADIUS	WEIGHT INDIVIDUAL LENGTHS	WEIGHT ON LOT OF 10 MT	CUSTOMIZED OFFER
SHS IS :4923	YSt - 210 YSt - 240 YSt - 310 YSt - 355	±1% with a min of ±0.50 mm	± 7.5%	90 deg ± 2deg.	3t max	-8%, +10%	± 7%	Length-4M to 12M Thickness -1.0mm to 12mm

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Steel Tubes & Pipes

Dimensions Properties Of

STEEL RECTANGULAR HOLLOW SECTIONS (RHS) FOR STRUCTURAL PURPOSE

CONFIRMING TO IS 4923:2017 (GRADE YSt 210, YSt 240, YSt 310, YSt 355)

RHS DxB	DEPTH (D)	WIDTH (B)	THICK-NESS (t)	WEIGHT	AREA OF SECTION	MOMENT OF INERTIA ABOUT		RADIUS OF GYRATION		ELASTIC MODULUS		PLASTIC MODULUS	
						X-X	Y-Y	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y
mm	mm	mm	mm	kg/m	cm2	cm4		cm		cm3		cm3	
50 x 25 x 2.9	50	25	2.90	2.98	3.80	10.93	3.60	1.70	0.97	0.00	2.88	5.72	3.48
50 x 25 x 3.2	50	25	3.20	3.24	4.13	11.63	3.80	1.68	0.96	4.65	3.04	6.14	3.73
60 x 40 x 2.9	60	40	2.90	4.12	5.25	24.74	13.11	2.17	1.58	8.25	6.56	10.24	7.73
66 x 33 x 2.6	66	33	2.60	3.69	4.70	25.15	8.43	2.31	1.34	7.62	5.11	9.68	5.94
66 x 33 x 2.9	66	33	2.90	4.07	5.19	27.33	9.12	2.29	1.33	8.28	5.53	10.59	6.49
66 x 33 x 3.6	66	33	3.60	4.93	6.28	31.87	10.52	2.25	1.29	9.66	6.37	12.56	7.65
66 x 33 x 4.5	66	33	4.50	5.95	7.58	36.64	11.93	2.20	1.25	11.10	7.23	14.76	8.94
70 x 30 x 2.9	70	30	2.90	4.12	5.25	29.82	7.72	2.38	1.21	8.52	5.14	11.07	6.04
70 x 30 x 3.2	70	30	3.20	4.50	5.73	32.04	8.24	2.37	1.20	9.15	5.49	11.98	6.51
70 x 30 x 4	70	30	4.00	5.45	6.95	37.23	9.42	2.31	1.16	10.64	6.28	14.19	7.66
80 x 40 x 2.9	80	40	2.90	5.03	6.41	50.87	17.11	2.82	1.63	12.72	8.56	16.07	9.88
80 x 40 x 3.2	80	40	3.20	5.50	7.01	54.94	18.41	2.80	1.62	13.74	9.21	17.46	10.71
80 x 40 x 4	80	40	4.00	6.71	8.55	64.79	21.49	2.75	1.59	16.20	10.74	20.91	12.77
96 x 48 x 3.2	96	48	3.20	6.71	8.54	98.61	33.28	3.40	1.97	20.54	13.87	25.85	15.91
96 x 48 x 4	96	48	4.00	8.22	10.47	117.54	39.32	3.35	1.94	24.49	16.38	31.20	19.14
96 x 48 x 4.8	96	48	4.80	9.66	12.31	134.35	44.55	3.30	1.90	27.99	18.56	36.13	22.07
100 x 50 x 3.2	100	50	3.20	7.01	8.93	112.29	37.95	3.55	2.06	22.46	15.18	28.20	17.37
100 x 50 x 4	100	50	4.00	8.59	10.95	134.14	44.95	3.50	2.03	26.83	17.98	34.10	20.93
122 x 6.1 x 3.6	122	61	3.60	9.67	12.32	232.61	78.83	4.34	2.53	38.13	25.84	47.71	29.42
122 x 6.1 x 4.5	122	61	4 .50	11.88	15.14	278.94	93.78	4.29	2.49	45.73	30.75	57.84	35.55
122 x 6.1 x 5.4	122	61	5.40	14.01	17.85	320.83	107.03	4.24	2.45	52.60	35.09	67.28	41.22
127 x 50 x 3.6	127	50	3.60	9.34	11.89	227.08	52.05	4.37	2.09	35.76	20.82	45.95	23.70
127 x 50 x 4.6	127	50	4.60	11.69	14.89	276.33	62.46	4.31	2.05	43.52	24.98	56.65	29.03
145 x 82 x 4.8	145	82	4.80	15.92	20.28	555.16	228.50	5.23	3.36	76.57	55.73	94.93	63.93
145 x 82 x 5.4	145	82	5.40	17.74	22.60	610.85	250.59	5.20	3.33	84.26	61.12	105.06	70.66
172 x 92 x 4.8	172	92	4.80	18.71	23.83	917.13	346.91	6.20	3.82	106.64	75.41	132.07	85.61
172 x 92 x 5.4	172	92	5.40	20.88	26.60	1012.47	381.74	6.17	3.79	117.73	82.99	146.54	94.85
200 x 100 x 4	200	100	4.00	18.01	22.95	1199.71	410.78	7.23	4.23	119.97	82.16	148.03	91.70
200 x 100 x 5	200	100	5.00	22.26	28.36	1459.25	496.94	7.17	4.19	145.93	99.39	181.36	112.09
200 x 100 x 6	200	100	6.00	26.40	33.63	1703.31	576.91	7.12	4.14	170.33	115.38	213.25	131.49
200 x 100 x 8	200	100	8.00	34.38	43.79	2146.21	719.19	7.00	4.05	214.62	143.84	272.76	167.42
220 x 140 x 4	220	140	4.00	21.78	27.75	1892.55	947.64	8.26	5.84	172.05	135.38	206.34	151.67
220 x 140 x 5	220	140	5.00	26.97	34.36	2313.36	1155.23	8.21	5.80	210.31	165.03	253.72	186.30
220 x 140 x 6	220	140	6.00	32.05	40.83	2713.97	1351.66	8.15	5.75	246.72	193.09	299.44	219.64
220 x 140 x 8	220	140	8.00	41.91	53.39	3456.10	1712.17	8.05	5.66	314.19	244.60	385.99	282.52
240 x 120 x 4	240	120	4.00	21.78	27.75	2110.72	725.35	8.72	5.11	175.89	120.89	216.01	134.00
240 x 120 x 5	240	120	5.00	26.97	34.36	2579.67	882.47	8.67	5.07	214.97	147.08	265.57	164.44
240 x 120 x 6	240	120	6.00	32.05	40.83	3025.91	1030.45	8.61	5.02	252.16	171.74	313.39	193.69

PRAKASH SURYA
Steel Tubes & Pipes

Dimensions Properties Of

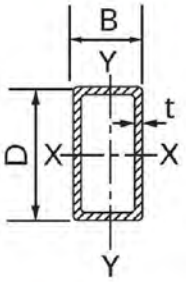
STEEL RECTANGULAR HOLLOW SECTIONS (RHS) FOR STRUCTURAL PURPOSE

CONFIRMING TO IS 4923:2017 (GRADE YSt 210, YSt 240, YSt 310, YSt 355)

RHS DxB	DEPTH (D)	WIDTH (B)	THICK-NESS (t)	WEIGHT	AREA OF SECTION	MOMENT OF INERTIA ABOUT		RADIUS OF GYRATION		ELASTIC MODULUS		PLASTIC MODULUS	
						X-X	Y-Y	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y
mm	mm	mm	mm	kg/m	cm2	cm4		cm		cm3		cm3	
240 x 120 x 8	240	120	8.00	41.91	53.39	3851.84	1299.95	8.49	4.93	320.99	216.66	403.86	248.65
260 x 180 x 6	260	180	6.00	39.59	50.43	4855.87	2763.43	9.81	7.40	373.53	307.05	446.86	347.86
260 x 180 x 8	260	180	8.00	51.96	66.19	6238.69	3538.10	9.71	7.31	479.90	393.12	579.81	450.74
260 x 180 x 10	260	180	10.00	63.92	81.43	7509.51	4244.26	9.60	7.22	577.65	471.58	704.95	547.27
260 x 180 x 12	260	180	12.00	75.47	96.14	8671.80	4884.69	9.50	7.13	667.06	542.74	822.41	637.59
300 x 150 x 6	300	150	6.00	40.53	51.63	6073.51	2079.57	10.85	6.35	404.90	277.28	499.61	309.47
300 x 150 x 8	300	150	8.00	53.22	67.79	7807.95	2654.12	10.73	6.26	520.53	353.88	648.51	400.49
300 x 150 x 10	300	150	10.00	65.49	83.43	9403.90	3173.71	10.62	6.17	626.93	423.16	788.79	485.64
300 x 150 x 12	300	150	12.00	77.35	98.54	10865.21	3640.89	10.50	6.08	724.35	485.45	920.58	565.04
300 x 200 x 6	300	200	6.00	45.24	57.63	7370.23	3962.19	11.31	8.29	491.35	396.22	587.81	446.05
300 x 200 x 8	300	200	8.00	59.50	75.79	9513.66	5097.04	11.20	8.20	634.24	509.70	765.31	579.96
300 x 200 x 10	300	200	10.00	73.34	93.43	11507.24	6144.30	11.10	8.11	767.15	614.43	933.79	706.69
300 x 200 x 12	300	200	12.00	86.77	110.54	13354.97	7107.11	10.99	8.02	890.33	710.71	1093.38	826.36
350 x 250 x 6	350	250	6.00	54.66	69.63	12457.31	7458.44	13.38	10.35	711.85	596.68	842.58	670.83
350 x 250 x 8	350	250	8.00	72.06	91.79	16170.48	9659.06	13.27	10.26	924.03	772.73	1101.58	876.24
350 x 250 x 10	350	250	10.00	89.04	113.43	19672.08	11723.53	13.17	10.17	1124.12	937.88	1349.84	1072.74
350 x 250 x 12	350	250	12.00	105.61	134.54	22966.89	13655.73	13.07	10.07	1312.39	1092.46	1587.49	1260.47
400 x 200 x 8	400	200	8.00	72.06	91.79	19195.28	6572.45	14.46	8.46	959.76	657.25	1184.25	733.56
400 x 200 x 10	400	200	10.00	89.04	113.43	23348.08	7950.97	14.35	8.37	1167.40	795.10	1450.89	896.69
400 x 200 x 12	400	200	12.00	105.61	134.54	27252.93	9230.63	14.23	8.28	1362.65	923.06	1706.00	1051.96

Note : Sizes other than specified above may be supplied as per the customer requirement.

GRADE	T.S. (MIN) MPa	Y.S.(MIN) MPa	% ELONGATION	
			25.4 MM & UNDER	OVER 25.4 MM
YSt - 210	330	210	12	20
YSt - 240	410	240	10	15
YSt - 310	450	310	8	10
YSt - 355	490	355	8	10



DIMENSIONAL TOLERANCES

SECTION TYPE	GRADE	OUTSIDE DIMENTION	THICKNESS	SQUARE NESS	CORNER RADIUS	WEIGHT INDIVIDUAL LENGTHS	WEIGHT ON LOT OF 10 MT	CUSTOMIZED OFFER
RHS IS :4923	YSt - 210 YSt - 240 YSt - 310 YSt - 355	±1% with a min of ±0.50 mm	± 7.5%	90 deg ± 2deg.	3t max	-8%, +10%	± 7%	Length-4M to 12M Thickn4ess- 1.0mm to 12mm

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Steel Tubes & Pipes

Dimensions Properties Of

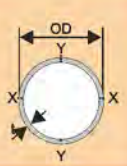
STEEL CIRCULAR HOLLOW SECTIONS (CHS) FOR STRUCTURAL PURPOSE

CONFIRMING TO IS 1161:2014 (GRADE YSt 210, YSt 240, YSt 310, YSt 355)

N.B. and Series	Outside Diameter	Thick-ness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
mm	mm	mm	kg/m	m/tonne	kg/m	m/tonne
15	21.3	2.0 2.6 3.2	0.952 1.20 1.43	1051 834 700	0.996 1.24 1.47	1004 806 681
20	26.9	2.3 2.6 3.2	1.40 1.56 1.87	717 642 535	1.45 1.61 1.92	689 620 520
25	33.7	2.6 3.2 4.0	1.99 2.41 2.93	502 415 341	2.06 2.44 2.96	484 410 338
32	42.4	2.6 3.2 4.0	2.55 3.09 3.79	392 323 264	2.64 3.13 3.83	379 319 261
40	48.3	2.9 3.2 4.0	3.25 3.56 4.37	308 281 229	3.35 3.61 4.42	299 277 226
50	60.3	2.9 3.6 4.50	4.11 5.03 6.19	244 199 161	4.23 5.09 6.25	236 196 160
65	76.1	2.90 3.60 4.50	5.23 6.44 7.95	191 155 126	5.40 6.51 8.02	185 154 125
80	88.9	3.20 4.00 4.80	6.763 8.38 9.96	148 119 100	6.96 8.47 10.04	144 118 100
90	101.6	3.60 4.00 4.80	8.70 9.63 11.46	115 104 87	8.92 9.73 11.56	112 103 86
100	114.3	3.6 4.5 5.4	9.83 12.19 14.50	102 82 69	10.08 12.30 14.62	99 81 68
110	127	4.5 4.8 5.4	13.59 14.47 16.19	74 69 62	13.87 14.58 16.31	72 69 61

N.B. and Series	Outside Diameter	Thick-ness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
mm	mm	mm	kg/m	m/tonne	kg/m	m/tonne
125	139.7	4.5 4.8 5.4	15.00 15.97 17.89	67 63 56	15.27 16.08 17.99	65 62 56
135	152.4	4.5 4.8 5.4	16.41 17.47 19.58	61 57 51	16.70 17.59 19.69	60 57 51
150	165.1	4.5 4.8 5.4	17.82 18.98 21.27	56 53 47	18.13 19.09 21.38	55 52 47
150	168.3	4.5 4.8 5.4 6.3	18.18 19.35 21.69 25.17	55 52 46 40	18.49 19.47 21.81 25.28	54 51 46 40
175	193.7	4.8 5.4 5.9	22.36 25.08 27.33	45 40 37	22.70 25.19 27.44	44 40 36
200	219.1	4.8 5.6 5.9 6.3 8 10	25.37 29.49 31.02 33.06 41.65 51.57	39 34 32 30 24 19	25.73 29.60 31.14 33.18 42.13 51.55	39 34 32 30 24 19
250	273	5.9 6.3 8 10	38.86 41.44 52.28 64.86	26 24 19 15	39.46 41.43 52.26 64.84	25 24 19 15
300	323.9	6.3 8 10 12	49.34 62.32 77.41 92.3	20 16 13 11	50.06 62.30 77.39 92.27	20 16 13 11
350	355.6	8 10 12	68.58 85.23 101.68	15 12 10	69.37 85.21 101. 65	14 12 10

DIMENSIONAL TOLERANCES

SECTION TYPE	GRADE	OUTSIDE DIMENSION	THICKNESS	SQUARE NESS	CORNER RADIUS	WEIGHT INDIVIDUAL LENGTHS	WEIGHT ON LOT OF 10 MT	CUSTOMIZED OFFER
CHS IS :1161	YSt - 210 YSt - 240 YSt - 310 YSt - 355	OD upto and incl 48.3 +0.4/- 0.8mm: over 48.3 ±1%	± 10%	NA	NA	± 10%	± 7.5%	

PRAKASH SURYA
Steel Tubes & Pipes

SOLAR POWER STRUCTURE





The consumption of non-renewable sources like oil, gas and coal is increasing at an alarming rate. The time has finally come to look after some other renewable sources of energy i.e. SOLAR ENERGY. Although many countries have started utilizing solar energy extensively but still they have to go a long way to fulfill their daily demand for energy.

For this Surya Roshni the largest manufacturer of ERW & Hollow Sections is ready for this project with Solar Panel Structures where GI Hollow Sections are used in vast scale. Prakash Surya Galvanized Hollow Sections are made from superior quality of Steel.

Surya Roshni has all the required sizes of Rectangular, Square & Circular Hollow Sections which are appropriately with high grade Zinc coated (70 to 80 microns) with proper End Facing, 100% Straightness & Controlled Twisting. Our Hollow Section's thickness ranges from 1mm to 8mm with varied length sizes and also as per customers' demand.





Cold Rolled Strips & Sheets

Cold Rolled Steel Strips/Sheets serve as critical inputs for a range of applications in a wide spectrum of industries. Considering the sophisticated applications, the CR Steel Strips are required to meet high standards of inherent quality , surface finish , heat treatment and close tolerance on dimension.

CR Strip division at Bahadurgarh is meeting these stringent requirements for sophisticated application with a production capacity of about 1,15,000 MT per annum.

Surya Roshni has made its presence felt in the market serving important customer particularly in the northern and western regions. Each supply is customised to specific customer requirement in term of quality delivery, technical delivery conditions etc. Attempt is made to develop long term relationship based on trust and transparency with its stress on quality, timely supplies and responsive customer service, it has built enduring relationship with its clients. It is now fully geared to meet the demanding needs of high value - added segment of Cold Rolled steel market throughout the country.

Product Range

CRCA Strips in low carbon (Temper Rolled, Drawing, Deep Drawing, Extra Deep drawing, and Non- Ageing Extra Deep Drawing qualities.

Semi processed unalloyed electrical steel.

Cold Rolled Steel Plant

Width	:	18mm To 770 mm
Thickness	:	0.30mm To 3.20mm
Coil Weight	:	2 kg/mm to 8kg/mm of Strip width
Coil Dimensions	:	ID 400 - 500mm : OD - 1400 mm max
Cut-to-lengths	:	500 - 2500 mm in 0.30 to 3.20mm thickness.

Surface Finish

Bright	Suitable for many purpose, but especially recommended for Electroplating (Nickle/Chrome) with prior buffing.
Matt	Surface Roughness (Dull finish) to help trouble free drawing /deep drawing and proper powder coating on end component. Also suitable for stamping grade material during punching process/ decarb annealing process in final stage.

Tolerances

	Specified Thickness (mm)		Tolerance (mm)
	Over	Upto	
Thickness	0.3	0.8	± 0.02mm
	0.8	1.6	± 0.03mm
	1.6	3.2	± 0.04mm

	Specified Width (mm)		Tolerance (mm)
	Over	Upto	
Width	18	100	± 0.10mm
	100	250	± 0.15mm
	250	770	± 0.30mm

	Specified Length (mm)		Tolerance (mm)
	Over	Upto	
Length	500	1500	± 2.00mm
	1500	2500	± 4.00mm

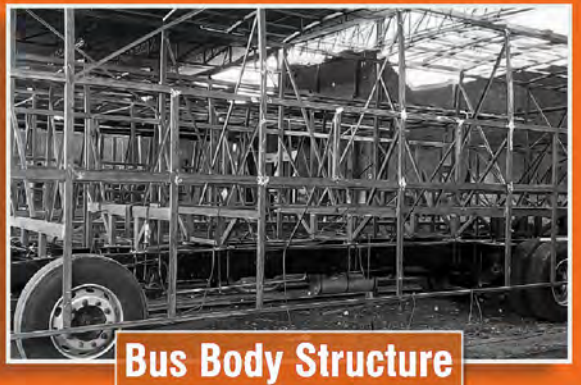


GP ROUND PIPES & GP HOLLOW SECTIONS

- Best GP Coil
- Right Thickness
- Uniform Zinc Coating
- Long Life



Green House



Bus Body Structure



Solar Power Structure







GP Round Pipes
GP Hollow Sections

SURYA Attaining New Heights of Success

- **High Quality Galvanized Coil from the trusted world class suppliers.**
- **Size Range & Thickness :**
  - **G.P. Round –** 15 NB (21.3 mm OD) to 175 NB (193.7 mm OD), Thickness 0.80 mm to 2.90 mm according to OD/Thick. Ratio. (Confirming to IS 3601:2006)
  - **G.P. Square –** 15X15 mm to 150X150 mm, Thickness 0.80 mm to 2.90 mm according to OD/Thick. Ratio. (Confirming to IS 4923:2017)
  - **G.P. Rectangular –** 40X10 mm to 200X100 mm, Thickness 0.80 mm to 2.90 mm according to OD/Thick. Ratio. (Confirming to IS 4923:2017)
- **Steel Grade:** As per customer requirement depending upon application.
- **Zinc Coating Range:** 120 GSM to 285 GSM (As per customer demand)
- **Length:** As per customer requirement.
- **Shape Flexibility:** Circular, Square, Rectangular Sections.
- Strong brand recall for PRAKASH SURYA Steel Pipes throughout the World.
- **High Quality :** Value for Money Product.

PRAKASH
SURYA
Steel Tubes & Pipes



Prakash SURYA Steel GP Pipes & Hollow Sections are the Best....



Prakash Surya GP Pipes & Hollow Sections are manufactured by State of the art manufacturing technology from the best quality Galvanized Coil procured from the World Class best producers.



High Grade Zinc for coil galvanizing & Uniform Zinc Coating throughout the coil surface. Zinc Coating as per the customer demand depending upon the application.



Wide range of size (Round & Section), Thickness, Length and Steel Grade. Legible detailed computerized marking on each pipe/Section.



Prakash Surya GP Pipes & Hollow Sections adhere to the best quality in terms of strength, thickness & finishing and undergo the most stringent quality tests.



Prakash Surya GP Pipes & Hollow Sections conform strictly with IS standards. This makes best suited for construction purposes, be it Homes or Factories.



Prakash Surya GP Pipes & Hollow Sections are manufactured to precision in Round, Square & Rectangular shape so as to enhance their strength.



99.99% purity of Zinc Wire. Oiling of Pipe/Section surface during manufacturing and prior to packing also to protect the product from white rust.



For easy identification, Prakash Surya GP Pipes & Hollow Sections bear the Prakash SURYA Stamp which is a registered trade mark.



Quality control and R&D Lab equipped with latest equipment for carrying out applicable tests on Galvanized coil & Pipe/Sections.



We don't use low grade Zinc or Patra Coil. Prakash Surya GP Pipes & Hollow Sections are of superior quality at the most competitive price, thus Value for money product.



Also provide excellent corrosion resistance against wind, water and road salts making them 100% rust proof.

STEEL DOOR FRAMES

PRAKASH SURYA *Steel Door Frames*



- LongLasting
- Maintenance Free
- Pest Proof
- Eco-Friendly
- Weather Proof
- Non-Inflammable

Easy to install & cost less than WOOD

More Sturdier & long-lasting than any material.

PRAKASH SURYA
Steel Tubes & Pipes

Prakash Surya Steel Door Frames

Inculcated with Highest grade of Steel, Prakash Surya Steel Door frames are outright solution for residential or commercial spaces.

Built with Precision

Easy to install and handy to forge Prakash Surya Steel Door Frames are manufactured with latest technology that give doors a perfect fit and zero gap, hence keeping dust and insects away.

Focus on Quality

Customer satisfaction drives Surya in everything that it does. No wonder, commitment to high quality of its Door Frames starts right from the selection of raw material and continues at every stage of the manufacturing process till the finished product. The inspection procedures evaluate each Door Frames for surface finish, perfection of weld, correct diameter, wall thickness, length and weight.



Customisable for perfect fit

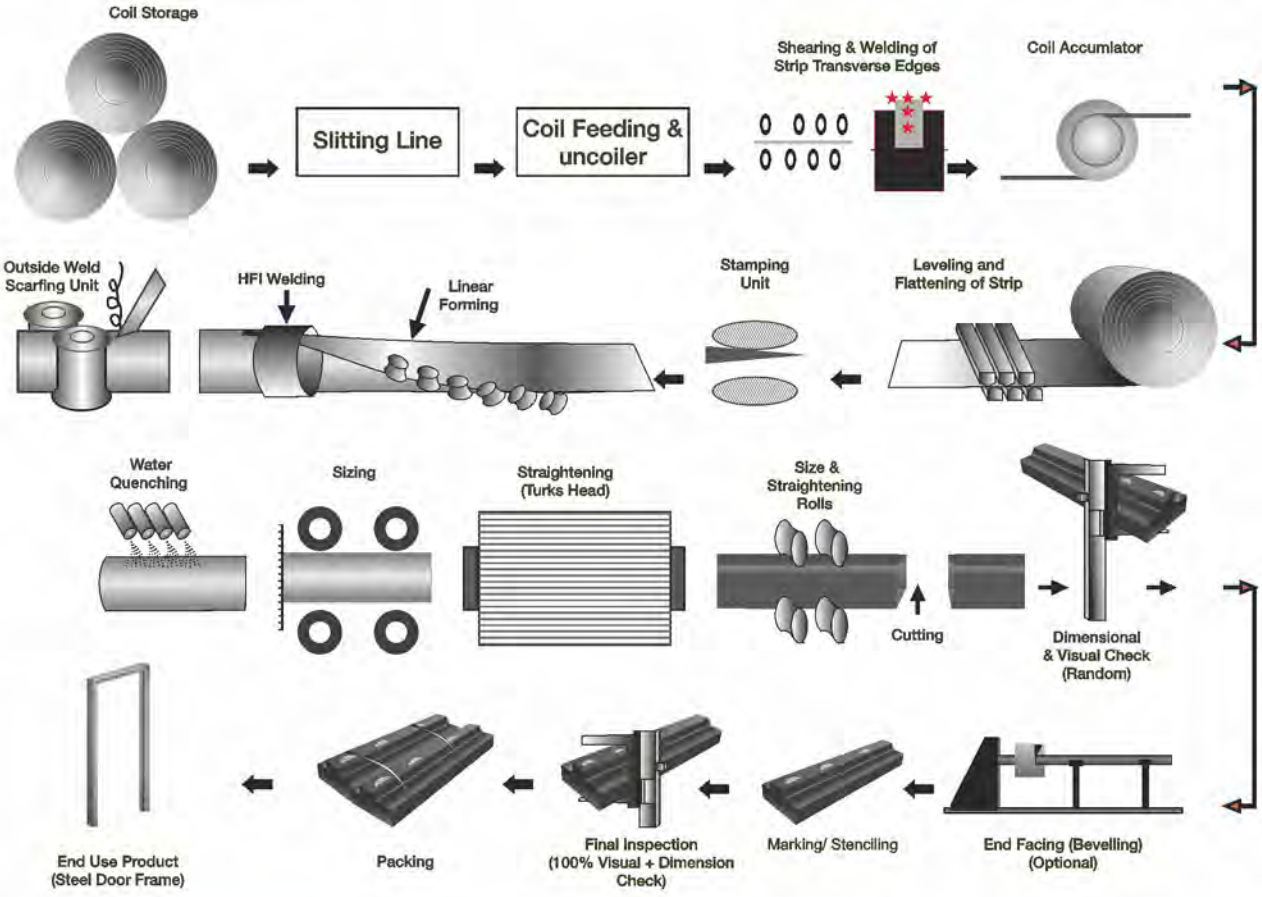
MANUFACTURING PROCESS

Steel Door Frames are made from HR/Pre GP/CR Coils manufactured & supplied by reputed major steel producers like Tata, Essar & SAIL. After being longitudinally slitted & edge preparation, the strip is progressively formed into a circular shape by passing it through a series of forming rolls.

Continuous welding is carried out by a high frequency induction welding machine and the seam is formed by fusing edges without any filler metal. The welded pipe is again passed through series of rolls to give frame shape to the section after which it is cooled and cut into appropriate length after attaining its desired shape and specified outside dimensions.

The door frames are conveyed to the finishing bay for testing and inspection. All Door Frames are 100 percent visually checked prior to sending for galvanizing/painting/varnishing (as per specifications/client requirement).

Manufacturing Process of Steel Doors Frame



List of Test Perform in Quality Department For Steel Door Frames :

- Tensile Test
- Hardness Test
- Outside dimension of side
- Thickness
- Length
- Weight
- Radius of corner
- Squareness of corner
- Concavity & Convexity
- Straightness & Twist
- Visual & Marking

Modern Laboratory

To ensure product reliability through process control, Surya has a fully equipped metallurgical laboratory with all the tools essential for comprehensive product quality testing and evaluation to withstand reactive processes. Destructive testing of Door Frames entails performance, examination of the weld, as well as their tensile and compressive strength.





Testing and Quality Control Facilities

Besides the numerous quality assurance measures, during the manufacturing process and at various inspection points, the following facilities are also utilized for ensuring stringent quality standards.

• Universal Testing Machines (Digital) with extensometer	For material testing (mechanical properties)
• Hardness Tester (Fixed / Mobile)	For checking micro & macro hardness on weld, heat affected zone and base metal
• Digital Ultrasonic Thickness Gauge	For checking thickness of Door Frames
• Spectroscope	For checking chemical composition of coil and door frame. (Send the samples to outside NABL-Lab if required by customer)
• Mandrels and Fixtures	Bend Testing
• Coating thickness Gauge	For checking of galvanizing thickness.

The trained and committed work force ensures high quality of Door Frames made as per specified design. The quality control system is audited time to time by the various certification bodies to verify the effectiveness of the system.

PRAKASH SURYA
Steel Tubes & Pipes

Why

Prakash Surya Steel Door Frames



Maintenance free: Build from high quality steel Prakash Surya Steel Door Frames once installed doesn't need any maintenance throughout the life course, also they are stronger than any other building material/products.



Cost Effective: It costs almost 50% less than the wood used to build door frames and is also easy to install.



No shrinking & swelling: Steel doesn't shrink or swell in seasonal changes and hence is perfect replacer of wood which shrinks and swells in summer and winter seasons.



Long Lasting: Built from High Quality steel Prakash Surya Steel Door Frames Lasts Longer than other products from the competitors.



Greater Outdoor Adaptability: Prakash Surya Steel Door Frames are built keeping in mind to stand against vivid outdoor conditions like dust and pollution.



Easy to install: Prakash Surya Steel Door Frames are forged according to measurements and require only bolts to hold ensures easy install-ability instead of conventional wooden frames installation.



Eco-friendly: As we all know steel products are from recycled steel and also during the process of recycling no harmful toxic gases are released, steel is always an eco-friendly outcome.



Weather proof: Unlike wood, steel doesn't have impact of weather on itself, Prakash Surya Steel Door Frames are built from high grade steel and hence can stand against all weather conditions.



Non-inflammable: Unlike wood steel is non-inflammable, hence more safer and also provide more strength with elegance to residential as well as commercial spaces.



Pest Proof: Steel is unaffected to pests unlike wood which is susceptible to termites, also Prakash Surya Steel Door Frames are built with precision and hence there remains no gap between the door and frame leaving no spaces for the insects to get in.

PRAKASH SURYA
Steel Tubes & Pipes

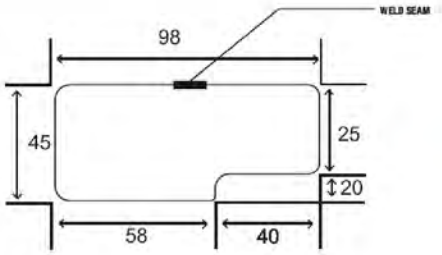
Our Range of Door Frames

Prakash Surya Steel Door Frames are made of High Quality Steel, cost effective, easy to fit and available in customised specifications. Prakash Surya Door Frames are perfect fit not only for houses but also for the corporate offices.

Thickness Range: 1.20 mm to 2.90 mm or as per customer requirement.

Single Door Frame

Designed with precision Prakash Surya Single Door Frame is ideal fit for homes and offices.

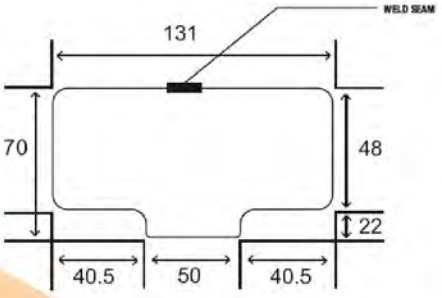


STEEL SINGLE DOOR FRAME



Double Door Frame

Designed with precision that cater both elegance and security. Prakash Surya Double Door Frame is ideal fit for homes and offices.



STEEL DOUBLE DOOR FRAME



Note: We manufacturing the sections pipe length only, not ready frames.





API PIPES

PRAKASH SURYA
Steel Tubes & Pipes

TECHNICAL DATA OF PIPES

CONFORMING TO API 5L- (46th Edition)

Size	Outside Diameter		Wall Thickness		Mass of Plain End Pipe		Standard Test Pressure								
							Gr A	Gr B	Gr X42	Gr X46	Gr X52	Gr X56	Gr X60	Gr X65	Gr X70
	mm	inch	mm	inch	Kg/Mtr.	Lb/Ft.	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
3½	88.9	3.500	2.10	0.083	4.50	3.03	6.0	7.0	8.2	9.1	10.2	11.1	11.8	12.8	13.7
	88.9		2.80	0.109	5.95	3.95	8.0	9.3	11.0	12.1	13.6	14.7	15.7	17.0	18.3
	88.9		3.20	0.125	6.76	4.51	9.1	10.6	12.5	13.8	15.6	16.8	17.9	19.4	20.9
	88.9		3.60	0.141	7.57	5.06	10.2	11.9	14.1	15.6	17.5	19.0	20.2	21.9	23.6
	88.9		4.00	0.156	8.37	5.58	11.3	13.2	15.7	17.3	19.4	21.1	22.4	24.3	26.2
	88.9		4.40	0.172	9.17	6.12	12.5	14.6	17.2	19.0	21.4	23.2	24.6	26.7	28.8
	88.9		4.80	0.188	9.95	6.66	13.6	15.9	18.8	20.7	23.3	25.3	26.9	29.2	31.4
	88.9		5.50	0.216	11.31	7.58	15.6	18.2	21.5	23.8	26.7	29.0	30.8	33.4	36.0
4	101.6	4.000	2.10	0.083	5.15	3.48	5.2	6.1	7.2	7.9	8.9	9.7	10.3	11.2	12.0
	101.6		2.80	0.109	6.82	4.53	6.9	8.1	9.6	10.6	11.9	12.9	13.7	14.9	16.0
	101.6		3.20	0.125	7.76	5.18	7.9	9.3	11.0	12.1	13.6	14.7	15.7	17.0	18.3
	101.6		3.60	0.141	8.70	5.82	8.9	10.4	12.3	13.6	15.3	16.6	17.6	19.1	20.6
	101.6		4.00	0.156	9.63	6.41	9.9	11.6	13.7	15.1	17.0	18.4	19.6	21.3	22.9
	101.6		4.40	0.172	10.55	7.04	10.9	12.7	15.1	16.6	18.7	20.3	21.6	23.4	25.2
	101.6		4.80	0.188	11.46	7.66	11.9	13.9	16.4	18.1	20.4	22.1	23.5	25.5	27.5
	101.6		5.70	0.226	13.48	9.12	14.1	16.5	19.5	21.5	24.2	26.3	27.9	30.3	32.7
4½	114.3	4.500	2.10	0.083	5.81	3.92	4.6	5.4	6.4	7.1	7.9	8.6	9.1	9.9	10.7
	114.3		3.20	0.125	8.77	5.85	7.1	8.2	9.7	10.8	12.1	13.1	13.9	15.1	16.3
	114.3		3.60	0.141	9.83	6.57	7.9	9.3	11.0	12.1	13.6	14.7	15.7	17.0	18.3
	114.3		4.00	0.156	10.88	7.24	8.8	10.3	12.2	13.4	15.1	16.4	17.4	18.9	20.4
	114.3		4.40	0.172	11.92	7.96	9.7	11.3	13.4	14.8	16.6	18.0	19.2	20.8	22.4
	114.3		4.80	0.188	12.96	8.67	10.6	12.3	14.6	16.1	18.1	19.7	20.9	22.7	24.4
	114.3		5.20	0.203	13.99	9.32	11.5	13.4	15.8	17.5	19.7	21.3	22.7	24.6	26.5
	114.3		5.60	0.219	15.01	10.02	12.3	14.4	17.0	18.8	21.2	22.9	24.4	26.5	28.5
	114.3		6.00	0.237	16.02	10.80	13.2	15.4	18.3	20.2	22.7	24.6	26.1	28.3	30.6
	114.3		6.40	0.250	17.03	11.36	14.1	16.5	19.5	21.5	24.2	26.2	27.9	30.2	32.6
	114.3		7.10	0.280	18.77	12.59	15.7	18.3	21.6	23.9	26.8	29.1	30.9	33.5	36.2
5-9/16	141.3	5.563	2.10	0.083	7.21	4.86	3.7	4.4	5.2	5.7	6.4	7.0	7.4	8.0	8.6
	141.3		3.20	0.125	10.90	7.27	5.7	6.7	7.9	8.7	9.8	10.6	11.3	12.2	13.2
	141.3		4.00	0.156	13.54	9.02	7.1	8.3	9.9	10.9	12.2	13.2	14.1	15.3	16.5
	141.3		4.80	0.188	16.16	10.80	8.6	10.0	11.8	13.0	14.7	15.9	16.9	18.3	19.8
	141.3		5.60	0.219	18.74	12.51	10.0	11.7	13.8	15.2	17.1	18.5	19.7	21.4	23.1
	141.3		6.60	0.258	21.92	14.63	11.8	13.7	16.3	17.9	20.2	21.9	23.3	25.2	27.2
6-5/8	168.3	6.625	2.10	0.083	8.61	5.80	3.1	4.6	5.4	6.0	6.7	7.3	7.8	8.4	9.1
	168.3		2.80	0.109	11.43	7.59	4.2	6.1	7.2	8.0	9.0	9.7	10.4	11.2	12.1
	168.3		3.20	0.125	13.03	8.69	4.8	7.0	8.3	9.1	10.3	11.1	11.8	12.8	13.8
	168.3		3.60	0.141	14.62	9.77	5.4	7.9	9.3	10.3	11.6	12.5	13.3	14.4	15.6
	168.3		4.00	0.156	16.21	10.79	6.0	8.7	10.3	11.4	12.8	13.9	14.8	16.0	17.3
	168.3		4.40	0.172	17.78	11.87	6.6	9.6	11.4	12.5	14.1	15.3	16.3	17.6	19.0
	168.3		4.80	0.188	19.35	12.94	7.2	10.5	12.4	13.7	15.4	16.7	17.8	19.3	20.7
	168.3		5.20	0.203	20.91	13.94	7.8	11.4	13.4	14.8	16.7	18.1	19.2	20.9	22.5
	168.3		5.60	0.219	22.47	15.00	8.4	12.2	14.5	16.0	18.0	19.5	20.7	22.5	24.2
	168.3		6.40	0.250	25.55	17.04	9.6	14.0	16.5	18.3	20.5	22.2	23.7	25.7	27.7
	168.3		7.10	0.280	28.22	18.99	10.6	15.5	18.4	20.2	22.8	24.7	26.3	28.5	30.7
	168.3		7.90	0.312	31.25	21.06	11.8	17.3	20.4	22.5	25.3	27.5	29.2	31.7	34.1
	168.3		8.70	0.344	34.24	23.10	13.0	19.0	22.5	24.8	27.9	30.2	32.2	34.9	37.6
8-5/8	219.1	8.625	3.20	0.125	17.04	11.36	3.7	5.4	6.4	7.0	7.9	8.5	9.1	9.9	10.6
	219.1		4.00	0.156	21.22	14.12	4.6	6.7	7.9	8.8	9.9	10.7	11.4	12.3	13.3
	219.1		4.80	0.188	25.37	16.96	5.5	8.1	9.5	10.5	11.8	12.8	13.6	14.8	15.9
	219.1		5.20	0.203	27.43	18.28	6.0	8.7	10.3	11.4	12.8	13.9	14.8	16.0	17.3
	219.1		5.60	0.219	29.48	19.68	6.4	9.4	11.1	12.3	13.8	15.0	15.9	17.3	18.6
	219.1		6.40	0.250	33.57	22.38	7.4	10.7	12.7	14.0	15.8	17.1	18.2	19.7	21.3
	219.1		7.00	0.277	36.61	24.72	8.1	11.7	13.9	15.3	17.3	18.7	19.9	21.6	23.2
	219.1		7.90	0.312	41.14	27.73	9.1	13.3	15.7	17.3	19.5	21.1	22.4	24.3	26.2
	219.1		8.20	0.322	42.65	28.58	9.4	13.8	16.3	18.0	20.2	21.9	23.3	25.3	27.2
	219.1		8.70	0.344	45.14	30.45	10.0	14.6	17.3	19.1	21.4	23.2	24.7	26.8	28.9
	219.1		9.50	0.375	49.10	33.07	10.9	15.9	18.9	20.8	23.4	25.4	27.0	29.3	31.5
10¾	273.1	10.750	4.00	0.156	26.54	17.67	5.2	6.1	7.2	8.0	9.0	9.7	10.3	11.2	12.1
	273.1		4.80	0.188	31.76	21.23	6.3	7.3	8.7	9.6	10.8	11.7	12.4	13.4	14.5
	273.1		5.20	0.203	34.35	22.89	6.8	7.9	9.4	10.4	11.7	12.6	13.4	14.6	15.7
	273.1		5.60	0.219	36.94	24.65	7.3	8.5	10.1	11.2	12.5	13.6	14.5	15.7	16.9
	273.1		6.40	0.250	42.09	28.06	8.4	9.8	11.6	12.7	14.3	15.5	16.5	17.9	19.3
	273.1		7.10	0.279	46.57	31.23	9.3	10.8	12.8	14.1	15.9	17.2	18.3	19.9	21.4

TECHNICAL DATA OF PIPES
CONFORMING TO API 5L- (46th Edition)

PRAKASH SURYA
Steel Tubes & Pipes

	273.1		7.80	0.307	51.03	34.27	10.2	11.9	14.1	15.5	17.5	18.9	20.1	21.8	23.5
	273.1		8.70	0.344	56.72	38.27	11.4	13.3	15.7	17.3	19.5	21.1	22.5	24.4	26.3
	273.1		9.30	0.365	60.50	40.52	12.2	14.2	16.8	18.5	20.8	22.6	24.0	26.1	28.1
	273.1		11.10	0.438	71.72	48.28	14.5	16.9	20.0	22.1	24.9	26.9	28.7	31.1	33.5
12¾	323.9	12.750	4.40	0.172	34.67	23.13	4.8	5.7	6.7	7.4	8.3	9.0	9.6	10.4	11.2
	323.9		4.80	0.188	37.77	25.25	5.3	6.2	7.3	8.1	9.1	9.8	10.5	11.3	12.2
	323.9		5.20	0.203	40.87	27.23	5.7	6.7	7.9	8.7	9.8	10.6	11.3	12.3	13.2
	323.9		5.60	0.219	43.96	29.34	6.2	7.2	8.5	9.4	10.6	11.5	12.2	13.2	14.3
	323.9		6.40	0.250	50.11	33.41	7.1	8.2	9.7	10.7	12.1	13.1	13.9	15.1	16.3
	323.9		7.10	0.281	55.47	37.46	7.8	9.1	10.8	11.9	13.4	14.5	15.5	16.8	18.1
	323.9		7.90	0.312	61.56	41.48	8.7	10.2	12.0	13.3	14.9	16.2	17.2	18.7	20.1
	323.9		8.40	0.330	65.35	43.81	9.3	10.8	12.8	14.1	15.9	17.2	18.3	19.8	21.4
	323.9		8.70	0.344	67.62	45.62	9.6	11.2	13.2	14.6	16.4	17.8	18.9	20.5	22.1
	323.9		9.50	0.375	73.65	49.61	10.5	12.2	14.5	16.0	17.9	19.4	20.7	22.4	24.2
	323.9		10.30	0.406	79.65	53.57	11.4	13.2	15.7	17.3	19.5	21.1	22.4	24.3	26.2
	323.9		11.10	0.438	85.62	57.65	12.2	14.3	16.9	18.6	21.0	22.7	24.2	26.2	28.3
14	355.6	14.000	4.80	0.188	41.52	27.76	4.8	5.6	6.7	7.3	8.3	8.9	9.5	10.3	11.1
	355.6		5.20	0.203	44.93	29.94	5.2	6.1	7.2	8.0	8.9	9.7	10.3	11.2	12.1
	355.6		5.30	0.210	45.78	30.96	5.3	6.2	7.3	8.1	9.1	9.9	10.5	11.4	12.3
	355.6		5.60	0.219	48.33	32.26	5.6	6.6	7.8	8.6	9.6	10.4	11.1	12.0	13.0
	355.6		6.40	0.250	55.11	36.75	6.4	7.5	8.9	9.8	11.0	11.9	12.7	13.8	14.8
	355.6		7.10	0.281	61.02	41.21	7.1	8.3	9.8	10.9	12.2	13.2	14.1	15.3	16.5
	355.6		7.90	0.312	67.74	45.65	7.9	9.3	11.0	12.1	13.6	14.7	15.7	17.0	18.3
	355.6		8.70	0.344	74.42	50.22	8.7	10.2	12.1	13.3	15.0	16.2	17.3	18.7	20.2
	355.6		9.50	0.375	81.08	54.62	9.5	11.1	13.2	14.5	16.3	17.7	18.8	20.4	22.0
	355.6		10.30	0.406	87.71	59.00	10.3	12.1	14.3	15.8	17.7	19.2	20.4	22.2	23.9
	355.6		11.10	0.438	94.30	63.50	11.1	13.0	15.4	17.0	19.1	20.7	22.0	23.9	25.7
16	406.4	16.000	4.80	0.188	47.54	31.78	4.2	4.9	5.8	6.4	7.2	7.8	8.3	9.0	9.7
	406.4		5.20	0.203	51.45	34.28	4.6	5.3	6.3	7.0	7.8	8.5	9.0	9.8	10.5
	406.4		5.60	0.219	55.35	36.95	4.9	5.7	6.8	7.5	8.4	9.1	9.7	10.5	11.4
	406.4		6.40	0.250	63.13	42.09	5.6	6.6	7.8	8.6	9.6	10.4	11.1	12.0	13.0
	406.4		7.10	0.281	69.91	47.22	6.2	7.3	8.6	9.5	10.7	11.6	12.3	13.4	14.4
	406.4		7.90	0.312	77.63	52.32	6.9	8.1	9.6	10.6	11.9	12.9	13.7	14.9	16.0
	406.4		8.70	0.344	85.32	57.57	7.6	8.9	10.6	11.6	13.1	14.2	15.1	16.4	17.7
	406.4		9.50	0.375	92.98	62.64	8.3	9.7	11.5	12.7	14.3	15.5	16.5	17.9	19.3
	406.4		10.30	0.406	100.61	67.68	9.0	10.6	12.5	13.8	15.5	16.8	17.9	19.4	20.9
	406.4		11.10	0.438	108.2	72.86	9.8	11.4	13.5	14.9	16.7	18.1	19.3	20.9	22.5

TOLERANCES

Outside diameter of Body & Ends :

Specified OD (mm)	Body Tolerance	Ends Tolerance (mm)	Out-of-roundness tolerances (mm)	
			Pipe except the end	Pipe end
≥60.3 to 168.3	±0.0075 D	-0.40, +1.60	0.020 D	0.015 D
>168.3 to 610	±0.0075 D but max. of ±3.20 mm	±0.005 D, but max. of ±1.60 mm	0.020 D	0.015 D
> 610 to 1422	±0.005 D but max. of ±4.0 mm	±1.60 mm	0.015 D	0.010 D
>1422	As agreed			

2) Thickness :

≤5.0 mm = ±0.5 mm

>5.0 to <15.0 = ±0.1t

≥15.0 mm = ± 1.5 mm

(where t = wall thickness)

3) Mass :

+10%, -3½% of standard weight

Mechanical properties :

PSL 1	Gr.A	Gr.B	Gr.X42	Gr.X46	Gr.X52	Gr.X56	Gr.X60	Gr.X65	Gr.X70
Yield strength MPa (min.)	210	245	290	320	360	390	415	450	485
Tensile strength MPa (min.)	335	415	415	435	460	490	520	535	570
Elongation (% Min.)	Min. elong. shall be determined by Ar=1940 $A^{0.2}$ /$U^{0.9}$ (Where A=Area of test specimen, U=Min. specified tensile strength)								

PSL 2	Gr.AM	Gr.BM	Gr.X42M	Gr.X46M	Gr.X52M	Gr.X56M	Gr.X60M	Gr.X65M	Gr.X70M	Gr.X80M
Yield strength MPa (min.)	-	245-450e	290-495	320-525	360-530	390-545	415-565	450-600	485-635	555-705
Tensile strength MPa (min.)	-	415-655	415-655	435-655	460-760	490-760	520-760	535-760	570-760	625-825
Elongation (% Min.)	Min. elong. shall be determined by Ar =1940 $A^{0.2}$ /$U^{0.9}$ (Where A=Area of test specimen, U=Min. specified tensile strength)									
Ratio (YS/TS) Max.	0.93									

e = For pipe with D<219.1 mm, the maximum yield strength shall be ≤495 MPa

PRAKASH SURYA
Steel Tubes & Pipes

TECHNICAL DATA OF PIPES

CONFORMING TO API 5L- (46th Edition)

CHEMICAL COMPOSITION FOR PSL 1 WELDED PIPES UP TO 25 mm WALL THICKNESS

Steel Grade (Steel Name)	Mass fraction based upon heat and product analysis % maximum			
	C max	Mn max	P max	S max
L 210 or Grade A	0.22	0.90	0.030	0.030
L 245 or Grade B	0.26	1.20	0.030	0.030
L 290 or X 42	0.26	1.30	0.030	0.030
L 320 or X 46	0.26	1.40	0.030	0.030
L 360 or X 52	0.26	1.40	0.030	0.030
L 390 or X 56	0.26	1.40	0.030	0.030
L 415 or X 60	0.26	1.40	0.030	0.030
L 450 or X 65	0.26	1.45	0.030	0.030
L 485 or X 70	0.26	1.65	0.030	0.030

CHEMICAL COMPOSITION FOR PSL 2 WELDED PIPES UP TO 25 mm WALL THICKNESS

Steel Grade (Steel Name)	Mass fraction based upon heat and product analysis % maximum								Carbon Equivalent (% Maximum)	
	C	Si	Mn	P	S	V	Nb	Ti	CE (IIW)	CE (PCM)
L 245M or Grade BM	0.22	0.45	1.20	0.025	0.015	0.05	0.05	0.04	0.43	0.25
L 290M or X 42M	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	0.43	0.25
L 320M or X 46M	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	0.43	0.25
L 360M or X 52M	0.22	0.45	1.40	0.025	0.015	*	*	*	0.43	0.25
L 390M or X 56M	0.22	0.45	1.40	0.025	0.015	*	*	*	0.43	0.25
L 415M or X 60M	0.12	0.45	1.60	0.025	0.015	*	*	*	0.43	0.25
L 450M or X 65M	0.12	0.45	1.60	0.025	0.015	*	*	*	0.43	0.25
L 485M or X 70M	0.12	0.45	1.70	0.025	0.015	*	*	*	0.43	0.25
L 555M or X 80M	0.12	0.45	1.85	0.025	0.015	*	*	*	0.43	0.25

***This is as per API Specification 5L**

Destructive & Non-Destructive Testing

Hydrostatic Testing 100% pipes are tested at a specified pressure.

NDT

PSL-1 Weld seam of each pipe is tested by online Eddy Current Test

PSL-2 Weld seam and pipe body (if required) shall be tested by Ultrasonic Test (after hydro test)

Flattening (0° & 90°) For pipes over size 2.375"
1. Flatten up to 1/2 of OD (no crack in weld) 2. Flatten up to 1/3 of OD (no cracks or breaks other than in weld)
3. Full Flattening (no Lamination or burnt metal)

Reverse Bend Test Customer Specification to determine strength of weld

Metallography For Grain size and Grain Structure

Impact Testing For PSL-2 Pipes only (at 0°C) Min. value for one sample = 22 J, Min. Avg. value of 3 samples = 27 J

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CPVC PIPES & FITTINGS



FEATURES & BENEFITS

- Raw material used - **'KANEKA' JAPAN**
- Suitable for use up to 90° C
- Tough & Rigid
- No Scaling / Corrosion
- Low Bacterial Growth
- High Chemical, Corrosion & Fire Resistance
- Low Thermal Expansion
- Cost Effective/ Quick & Easy Installation

APPLICATION

- Potable Hot & Cold Water Plumbing Systems for Residential & Commercial Usage.
- Industrial Piping Systems

PRODUCT RANGE

- ½" to 2"
- Pipe – SDR-11 & SDR-13.5
- Fittings – SDR-11

IS15778 ISI CM/L-3297973

CPVC PIPES AS PER IS:15778

CPVC FITTINGS AS PER ASTM:D 2846

ASTM

Made From

kaneka

J A P A N

Water Application | up to 90°C | lead-free | HIGH CHEMICAL RESISTANT | UV resistant | FIRE RESISTANT | Leak Proof DESIGN

PRAKASH SURYA

uPVC PLUMBING PIPES & FITTINGS



FEATURES & BENEFITS

- Strong & Light Weight
- Easy Solvent Cement Joint
- Smooth Inner Surface
- Corrosion Resistance
- Non Toxic
- Cost Effective

APPLICATION

- Potable Cold Water Plumbing Systems
- Cold Water Piping System for Industries

PRODUCT RANGE

- ½" to 2"
- Pipes – Schedule 40 & 80
- Fittings Schedule 80

uPVC PIPES AS PER ASTM : D 1785
uPVC FITTINGS AS PER ASTM: D 2467

Pb lead-free

Leak Proof DESIGN

HIGH CHEMICAL RESISTANT

UV resistant

NON TOXIC

PRAKASH
SURYA

uPVC PRESSURE PIPES & FITTINGS



FEATURES & BENEFITS

- Strong & Light Weight
- Easy to Install
- Smooth Inner Surface
- High Chemical Resistance
- Fire Retardant
- Low Maintenance / Cost Effective
- Non-Conductive

APPLICATION

- Water Distribution System
- Agriculture & Irrigation System
- Industrial Water Circulation Systems
- Cable ducting

PRODUCT RANGE

- 40 mm to 315 mm
- Fittings - 4kg & 6kg, Size : 63mm to 160mm

IS:4985 ISI CM/L-3205639 uPVC PRESSURE PIPES AS PER IS:4985:2000

IS:7834 ISI CM/L-8300127012 uPVC PRESSURE FITTINGS AS PER IS:7834:1987

Electric Resistance

HIGH CHEMICAL RESISTANT

NON TOXIC

UV resistant

Leak Proof DESIGN

PRAKASH SURYA

uPVC SWR PIPES & FITTINGS



FEATURES & BENEFITS

- Light Weight
- High Chemical & Corrosion Resistance
- High Flow Rates
- Low Maintenance
- Cost Effective
- Quick & Easy Installation

APPLICATION

- Soil, Waste & Rain Water Management.
- Domestic & Industrial Drainage System

PRODUCT RANGE

- 75 mm to 160 mm Type A & Type B
- Solvent & Rubber Ring Jointing System

IS:13592 CM/L-3272351 — uPVC SWR PIPES AS PER IS:13592

IS:14735 CM/L-2543553 — uPVC SWR FITTINGS AS PER IS:14735



HIGH CHEMICAL RESISTANT

UV resistant

Leak Proof DESIGN

Our Prestigious Clients :

PRAKASH SURYA
Steel Tubes & Pipes





Achievements & Accreditations

The success quotient of Surya is unmatched. We thrive hard to cater brilliance at every pedestal. Surya has achieved many accreditations and certificates from various governing bodies to guarantee the best of quality and next generation technology inculcated in every product. We are certified from the authority to use the Official API monogram which is a mark of sheer trust and reliability. ERW Welded pipes from Surya have bagged many certifications that ensure longevity and quality of the pipes.

VALUES WE NURTURE

We shall endeavour to maintain leadership through quality products and cost control, explore new avenues in product development, marketing and exports, create a stronger bond with our stakeholders, contribute to social development and constantly strive for excellence in all spheres of our global activities.



CARING
We listen and respect our customers & each other so we can act with insight, understanding & compassion.

INSPIRATION
We inspire each other to explore ideas that can make the world a better place.

EXCELLENCE
We strive to deliver the highest quality standards through simple, easy & relevant solutions.

INTEGRITY
We do the right thing for the right reason.

Notes



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Steel Tubes & Pipes

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steel.ahmedabad@surya.in

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Other Dept.

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