



SAWP STEEL LIMITED

Binding Wire | High Carbon PC Wire
Galvanized Wire | Nails





ABOUT SAWP STEEL LIMITED

The Company was incorporated on 18.08.1995 as 'Sri Ananda Subbaraya Wire Products Pvt Ltd' with an installed capacity of 6000 TPA for manufacturing of binding wire and the unit was located at Aganampudi, Visakahaptnam, AP and later in Jan 2005, the licensed capacity increased to 15,000 TPA. During FY16, the company acquired industrial land admeasuring Ac 8.30 at RG Peta Village, L.Kota Mandal, Vizianagaram Dist, Andhra Pradesh and closed the facility at Aganampudi, Vizag.

The company constructed new facility at RG Peta with a manufacturing capacity of 18000 TPA of binding wire and high carbon wire. During the year 2017, the Company started trading of steel & allied products including raw materials like coal, iron ore, pellets etc and finished products like TMT Rebars etc. Later with the brand building and marketing needs the company name has been changed to SAWP Steel Ltd on 26.07.2018. During the year 2022, the company has set up a new facility for manufacturing of Nails with an installed capacity of 5400 TPA to export of US and other European countries.

Management

Mr. B.Rajesh – Managing Director

Mr.B.Rajesh aged 50 years and did his MBA from Madras University. He has vast experience in Supply Chain management and Treasury operations in a reputed manufacturing industry for more than 30 years. He looks after the overall management and operations of the company supported by well experienced staff in manufacturing and marketing.

Mr. Avinash Yamdagni - Director

Avinash Yamdagni, aged 54 years is the Director of the Company since 31.03.2018 and studied MBA. He has diverse experiences spanning a period of more than 26 years in executive and administrative roles with good experience in iron & steel sector and electronics industry. He will be guiding and supporting the expansion activities of the company in North India markets.

Mrs. Bandi Suchitra – Director

Bandi Suchitra, aged 30 years is the Director of the Company since 15.10.2021 and studied Master in computers, USA. She will be guiding and supporting the expansion activities of the company in USA markets.

Vision

We aspire to be the global steel industry benchmark for Value Creation and Corporate Citizenship.

Mission

The Company seeks to scale the heights of excellence in all it does in an atmosphere free from fear, and thereby reaffirms its faith in democratic values.

Content

GENERAL DESCRIPTION

MS WIRES

PRESTRESSED CONCRETE WIRE

MS TYPES

1. Binding Wire

2. NAILS TYPES

A. Coiled Nails

B. Plastic Collated Nails

C. Screw Nails

PRESTRESSED CONCRETE WIRE TYPES

4. 3x3Ply Pc Strand Wire

5. 4mm Indented Pc Wire



PC Wire, short for Pre-stressed Concrete Wire is a high-quality steel wire generally used as an internal reinforcement material for various applications that involve the use of concrete. It is manufactured from steels firmly alloyed with carbon. PC Wires, known for having wide diameters, are normally drawn after the de-scaling and accumulating a phosphate type reactive surface coating. The procedure involves repetitive heating and extending of a cold drawn high-carbon steel wire to obtain a finished product possessing a remarkably reduced load relaxation and a highly enhanced yield stress.

These can also be braided after the completion of wire-drawing activities. The PC Wire functions to balance the tensile stresses developed due to bending loads and also helps promise an aged load-bearing ability of the concrete structure. PC Wires are heavily used in the construction sector for manufacturing pre-stressed steel structures such as large-span bridges, coal mines rock-soil anchoring project, overhead crane beam, multi-storey frameworks, dams, etc. Due to its coherent mechanical properties, outstanding corrosion resistance, and minimum relaxation, PC Wire tends to offer a uniform compressive strength to the concrete.

Features of PC Wire

- High tensile strength.
- Low relaxation.
- Stable modulus of elasticity
- Stress-relieved, firm connection with concrete.
- Low stress.
- Stable construction.
- Reducing distortion.
- Good combination with steel-reinforced concrete.
- Accelerates the abrasion resistance, water resistance.

PC Wire can be categorized into numerous types according to different parameters such as the intensity level, treatment process, cross-section or surface coating.

Most popularly, based on the surface treatment method, PC Wire can be categorized as –

- Plain PC Wire
- Indented PC Wire
- 3 Ply PC Wire

Plain PC Wire



Plain PC Wire is also known as Smooth PC Wire indicates the smooth surface treatment of steel wire, without ribs, or indented. It is a traditional form of PC Wire which has low relaxation and high tensile strength. Due to its ductility combined with higher strength, it is popular as the suitable steel material used in large-load, long-span PC structures, such as PC Bridge, PC sleeper, PC pipe, and the large-span sloping rope bridge.

Besides, without having an explicit yield point, it can cut to the appropriate length as needed. Before its use, PC Wire possesses prestressing force through pre-tensioning or post-tensioning methods. Hence, when combined with concrete, it gains the property to suspend the development of the component crack. Also, steel wire used in prestressed concrete requires no coatings which make it economical.

Indented PC Wire



This is a kind of PC Steel Wire which has got an indented surface. Indented PC Wire can be found in various shapes like round, ellipse, rhombus, etc. Similarly, it can be classified into two-sides, three-sides, and four-sides. When indented steel wire mixes with concrete it can exert the desired compressive force from the steel wire to the concrete. In other words, it can save steel materials and increases the quality of the concrete structures, thus reduces the cost and helps to deliver better performance.

3 Ply PC Wire



These are the High Tensile Wire and strand with improved proportional limit combined with higher ductility which in the complete sense suited for prestressed concrete industries. Apart from this, PC wire 3 Ply are manufactured as per the customer demands which also ease the labour cost. These PC Wires are mostly used in railway sleepers.

Specifications:

- 3 x 3 mm PC wire or High Tensile Steel Stranded Wires as per IS 6006-1983 (Un-coated) used in Prestressed Concrete Industry. This is used in large bridges, Flyovers, Ports, and Road Dividers.
- 4 mm H.T. Wire (Indented) as per IS 6003-1983 Hard Drawn and Stress Relieved for use in Prestressed Concrete Industry. This is used in the manufacture of Poles & Spun Poles for electrification and telecommunication.
- 2.50-5.00 mm as drawn wire as per IS 1785-Part-II of 1983-Plain Hard Drawn Steel Wire for Prestressed Concrete Industry (Stress Relieved).

Test Procedure

- Size.
- Breaking Load.
- Tensile Strength.
- Modulus of Elasticity.
- Elongation.
- Bends.
- Yield Strength.
- Proof Stress.

Quality Inspection

- Raw material are inspected heatwise.
- After drawing and stranding they are again tested.
- Finally after stress relieving and quenching they are tested and approval of our quality team they are dispatched.

Benefits of PC wire

- Improves the bond strength between prestressed steel wire and concrete.
- Reduces the frictional losses between pre-stress wire and concrete.
- Increases the anchorage efficiency.
- Maintains higher effective pre-stressing force in the structure.
- Reduces the number of operations at the customers' end.

Application



MS WIRE

Mild Steel Wire, commonly known as MS Wire is a steel wire manufactured with low carbon contents. The carbon content in MS Wire accounts for around 0.05% - 0.25%, which provides more strength and toughness as compared to the absolute iron wire and is made by drawing of mild carbon steel rods.

These wires tend to draw a massive marketplace call for as they may be directly used to produce numerous general-purpose materials such as wire nettings, wire nails, fencing wire, Binding wire, etc.

MS Wire

- Mild steel 8/7/6.5/6/5.5 MM WR in Coils.
- IS Grade: 7887: 2001, Gr: 3(RINL: SAE 1008 DQ, SAE 1018 DQ).

MS Wire Specifications:

1. C: 0.1% max
 2. Mn: 0.3-0.5 %
 3. Sulphur: 0.035-0.04% max
 4. Phosphorus: 0.035-0.04% max
 5. Si: 0.15-0.35 %
- Al: 0.02%



Products Manufactured

- Binding Wire Size: 0.9 mm.
- 12 gauge wire (2.6 mm)
- 16 Gauge (1.6 mm) – Pins purpose.
- 17 Gauge (1.4 mm) – Barbed wire Purpose.
- 10 Gauge – Nails.
- 8 Gauge (4 MM) – Raw Material bundling purpose.
- 3.15 mm – Welding rods purpose.

Suppliers:

- RINL
- Prakash Industries, Raipur
- Hira Steel, Raipur
- SAIL

Binding Wire

Binding wire is used for the purpose of tying applications in the field of construction. It is used extensively in the construction sector for tying the rebars at the joints so as to keep the structure intact.

Manufactured from RINL's Wire Rod Coils of international quality, our binding wire has consistent diameter throughout the coil. SAWP STEEL LIMITED's binding wires have higher ductility and strength for extra softness and flexibility. Each length of our binding wire has the Hallmark of quality of Simhadri Wire with premium bluish finish.



Product Specifications:

- Available Sizes (mm)
- 0.9 mm (20 Gauge)

Packaging Sizes

Net Packing Weight - 25 kg/Bundle, 10 kg/Bundle & 5 kg Small Packs (On Demand)

Coil Size

16 Inch

Advantage

- Special and secure packaging with ease of handling & distribution.
- Higher length per Kg for more number of joints.
- No Breakage on repeated twisting and hence less wastage and time-saving.
- Strong network across India to ensure on-time delivery.



A. Coiled Nails

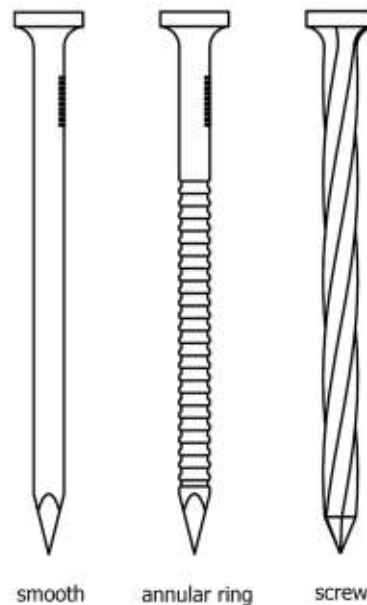
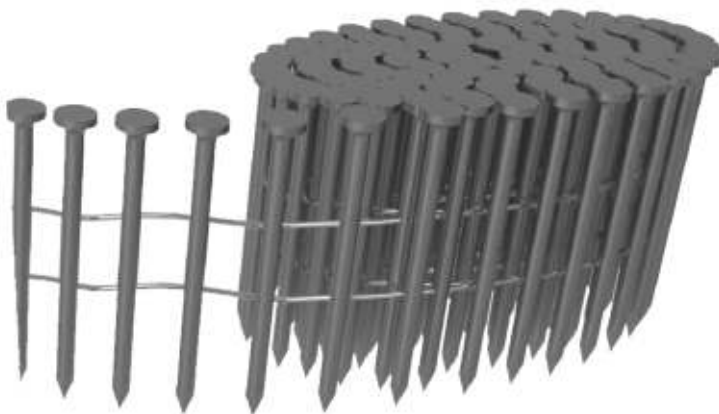
Main types include coiled smooth shank nails, coiled ring shank nails and coiled screw nails.

- Designed for high efficient operation.
- For use with 15° wire coil framing nailers.
- Proper fastener feeding for high volume operations.
- Resistant to rust for outdoor applications.
- Tighter hold power and increased durability.
- Surface treatment: bright, electro galvanized, hot dipped galvanized, phosphate coated.



Application

- Sheathing.
- Ply bracing.
- Fencing fixation.
- Timber & softer pine framing material.
- Composition roofing.
- Underlayments.
- Fiber cement boards.
- Cabinet and furniture frames.



smooth

annular ring

screw

Compatible Tools

Fits All Standard Coil Nail Guns

- Bostitch N12, RN45, RN46.
- Hitachi NV45 series.
- Makita AN451.
- Max CN450R, CN12R.
- Paslode 3175, 44RCU, 405000.
- Senco RoofPro, RoofPro 455XP, SCN40R.
- Spotnails VRN45.



B. Plastic Collated Nails

Plastic collated nails are held together with plastic strip or band to prevent deterioration due to weather conditions or high humidity.

- No sting, no jams, no waste.
- Cost saving and fairly durable.
- Resistant to damage due to water, heat or cold.
- Work well with all standard corresponding framing nailers.
- Great holding power and resistant to bending.
- Surface treatment: bright, electro galvanized, hot dipped galvanized.



Application

- Carpentry.
- Framing.
- Sheathing material.
- Truss building.
- Subflooring.
- Side wall fixation.
- Pallets & crate assembly.
- Real wood door.

Styles



Plastic collated nails
– Smooth shank



Plastic collated nails
– Ring shank



Plastic collated nails
– Screw shank

Tools & Connection

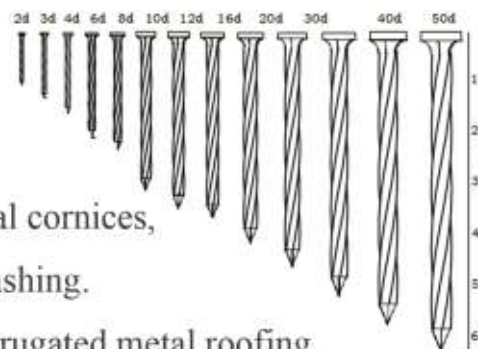
- Bostitch.
- Dewalt.
- Duo-Fast.
- Fasco.
- Hitachi.
- Makita.
- Max.
- Paslode.
- Porter Cable.
- Senco.
- Spotnails.
- Grip-Rite.



C. Screw Nails

Screw nails, a special type of nails with helical shanks resembling screws, can be driven like a nail but also offer a strong holding power like a screw.

- Easy to drive without predrilling.
- Offer greater grip force, resistant to withdrawal.
- Easy to remove if necessary.
- Can be collated for the screw gun use.
- Various corrosion coatings for durability.
- Complete styles, gauges and sizes are available.



Application

- M-D flooring.
- Plumbing.
- Tiling.
- Vinyl siding.
- Truss building.
- Subflooring.
- Aluminum floor metals.
- Pallets & crate assembly
- Sheet metal cornices, gutters, flashing.
- Flat or corrugated metal roofing.

Quality Policy

Achieve total customer satisfaction by providing products that meet all specified requirements and in accordance with customer needs and expectation.

Maintain product quality performance and ensure the company becomes the leader in quality and product reputation. Identify areas requiring improvement at regular management meetings.

Organize and manage available resources for the prevention of defects and focus corrective actions on the identification and elimination of quality problems.

To place great emphasis on the importance of training and education of all employee's to

- Stimulate employees creativity, Initiative and sense of responsibility.
- Ensure the awareness of company objectives and policies.



Laboratory Capabilities

The quality control laboratory that has modern facilities for performing chemical and mechanical tests besides spectrometric analysis for verification of material compositions

Some of the testing equipment includes:

- Universal Testing Machine.
- Relaxation Testing Machine.
- Spectrometer
- Bending Tests
- Chemical Laboratory



Certificates

साइमस सी.एच. / एच - का संलग्नक
Attachment to License No. CML- 6757592

साइमस संख्या CML No.	साइमसकारी का नाम और पता Name of the Licensee with Address	वस्तु का नाम Name of the Product	आवृत्ति : मंशा और वर्ष IS No. & Year
6757592	M/s. SAWP Steel Limited Survey No. 89 R.G. Peta (Village) L. Kote (Mandal) Dist: Visnagar Andhra Pradesh	Uncoated Stress Relieved Strand for Prestressed Concrete	IS 6866:2014

Class	Designation
-	5 ply 3 mm

ENDORSEMENT NO. 17 DATED 19 अक्टूबर 2020

Whereas the license was valid up to 31/10/2020, now consequent upon renewal, the validity of license given in Endorsement No. 17 has been extended from 01/11/2020 to 31/10/2021.

(When terms and conditions of the license remain the same.)

(B SANDHYA)
SCIENTIST-E & HEAD
BUREAU OF INDIAN STANDARDS
VIJAYAPATNAM BRANCH OFFICE

साइमस सी.एच. / एच - का संलग्नक
Attachment to License No. CML- 6756691

साइमस संख्या CML No.	साइमसकारी का नाम और पता Name of the Licensee with Address	वस्तु का नाम Name of the Product	आवृत्ति : मंशा और वर्ष IS No. & Year
6756691	M/s. SAWP Steel Limited Survey No. 89 R.G. Peta (Village) L. Kote (Mandal) Dist: Visnagar Andhra Pradesh 515001	Galvanized Wire for Prestressed Concrete	IS 6860: 2014

ENDORSEMENT NO. 18 DATED 19 अक्टूबर 2020

Whereas the license was valid up to 31/10/2020, now consequent upon renewal, the validity of license given in Endorsement No. 17 has been extended from 01/11/2020 to 31/10/2021.

Consequent upon revision of the 6 items of Inspection and Testing (IT) attached to the license has been replaced by the revised scheme, Document FMS 00032/April 2020

(When terms and conditions of the license remain the same.)

(B SANDHYA)
SCIENTIST-E & HEAD
BUREAU OF INDIAN STANDARDS
VIJAYAPATNAM BRANCH OFFICE

Certificate of Registration

DMCP, hereby certify that the organization

SAWP STEEL LIMITED

To No. 89, R.G. Peta (V),
L. Kote Mandal,
Visnagar District,
Andhra Pradesh-515001.

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities:

Manufacturing and Supply of High Carbon Wires and MS Wires

190008-Q
Certificate Number

27 June 2016
Date of Initial Registration

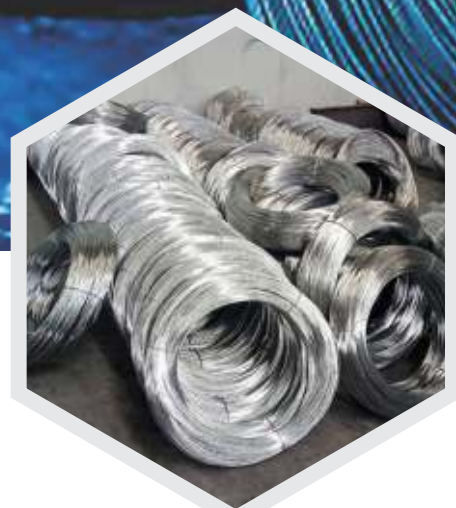
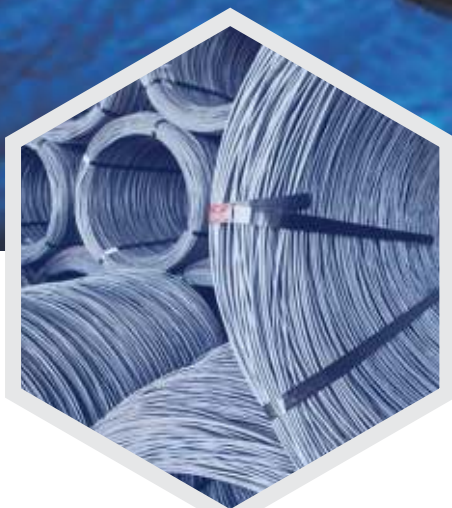
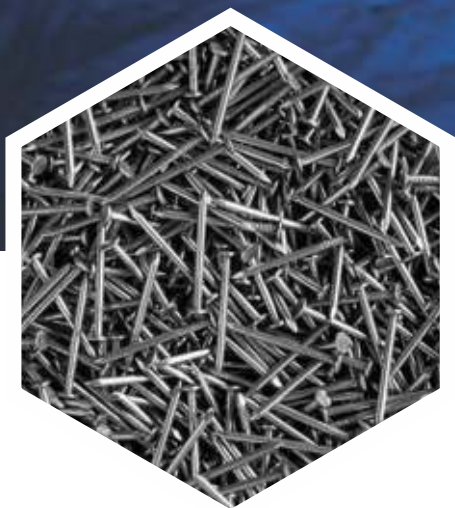
31 June 2021
Date of Last Issue

30 June 2022
Date of Expiry

Global Management Certification Services Pvt. Ltd.
ISO 9001:2015 Registration No. 190008-Q
Andhra Pradesh - 515001







SAWP STEEL LIMITED

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Vizianagaram District, Andhra Pradesh.

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