JSW Neostrands
LRPC Strands

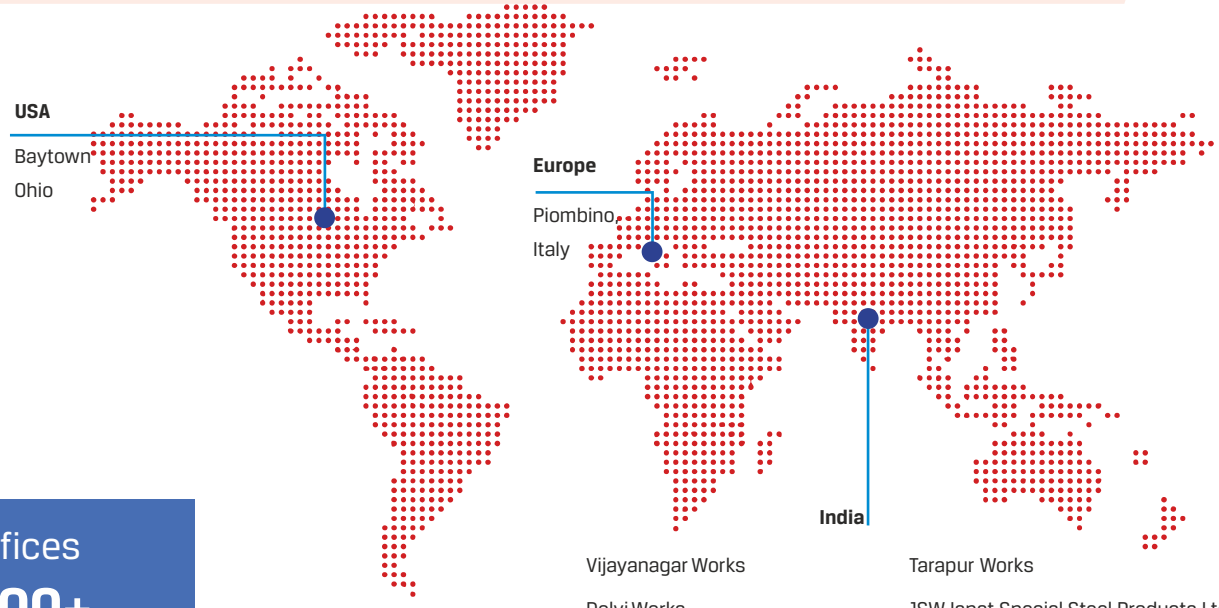
# Empowering **India's Infrastructure** Growth

# Content

# About JSW Group

The US$ 24 billion JSW Group is ranked among India's leading business houses. JSW's innovative and sustainable presence in various sectors including Steel, Energy, Infrastructure, Cement, Paints, Venture Capital and Sports is helping the Group play an important role in driving India's economic growth.
The Group strives for excellence by leveraging its strengths & capabilities including a successful track-record of executing large capital-intensive & technically complex projects, differentiated product-mix, state-of-the-art manufacturing facilities and greater focus on pursuing sustainable growth.

It also has a strong social development focus aimed at empowering local communities residing around its Plant & Port locations. JSW Group is known to create value for all its stakeholders by combining its growth roadmap, superior execution capabilities and a relentless drive to be #BetterEveryday.




## Our Plants

| | |
|---|---|
| People **40000+** | Offices **300+** |
| Plants **16** | Continents **4** |

- Vijayanagar Works
- Dolvi Works
- Salem Works
- Bhushan Power & Steel Ltd. (BPSL)
- Salav Works
- Vasind Works
- Kalmeshwar Works
- Tarapur Works
- JSW Ispat Special Steel Products Ltd.
- Anjar Works
- JSW Vallabh Tinplate Pvt. Ltd.
- Vardhaman Industries Ltd. (VIL)
- Asian Colour Coated Ispat Ltd. (ACCIL)

# About JSW Steel

JSW Steel is the flagship business of the diversified US$ 24 billion JSW Group. Over the last three decades, it has grown from a single manufacturing unit to become India's leading integrated steel company with capacity of 28 MTPA in India & USA (including capacities under joint control).

Its roadmap for the next phase of growth includes a target of achieving 37.5 MTPA steel capacity by FY25. The Company's manufacturing unit in Vijayanagar, Karnataka, is the largest single location steel-producing facility in India, with a capacity of 12 MTPA. JSW Steel has always been at the forefront of research and innovation offering high-value special steel products to its customers.

These products are extensively used across industries and applications including construction, infrastructure, automobile, electrical applications, appliances, etc. JSW Steel is the only Indian company to be ranked among the top 15 global steel producers by World Steel Dynamics for 13 consecutive years since 2008.

# About JSW Neostrands

*A subsidiary of JSW steel ltd.*

With Neotrex Steel Limited, the future of infrastructure is stronger, faster, and more reliable. Experience the strength in the strands with JSW Steel.

Neotrex Steel Limited is a leading supplier of technologically advanced Low Relaxation Prestressed Concrete (LRPC) strands in India and beyond. With a proud legacy of supplying top-quality materials.

Our commitment to excellence has positioned us as a well-established supplier of LRPC strand in India and an emerging industry leader, with a focus on delivering world-class products. We have now expanded our reach to international markets. This milestone marks the beginning of our journey as a global supplier of high-performance LRPC strands.

**Neotrex has played a pivotal role in some of the most prestigious infrastructure projects in India, including the**

• Mumbai -Ahmedabad High -Speed Train ( Bullet Train) • Mumbai Metro • Chennai Metro • Bengaluru Metro • RRTS • WDFC • Nagpur Samruddhi Mahamarg • Delhi-Amritsar -Katra Expressway • Dwarka Expressway • Mumbai Coastal Road • Ganga Expressway • Chennai Ringroad Project etc.

The LRPC strands offered by Neotrex Steel Limited are engineered to meet the highest quality standards, ensuring reliable and sustainable performance in critical infrastructure projects. Our strands are designed to minimize stress relaxation loss, leading to significant cost reductions and faster construction, while offering higher reliability and fatigue resistance.

Leveraging cutting-edge technology and stringent quality controls, our state-of-the-art manufacturing facilities have set new industry benchmarks in steelmaking. This commitment to innovation translates to the highest quality LRPC strands produced by JSW.

With a production capacity of 1.8 million MT per annum, our wire rod mills are among the best globally. Our products are BIS, ISO certified, and our test laboratories are NABL accredited. We manufacture LRPC strands in various sizes for domestic and international markets, conforming to standards like IS14268:2022, BS5896, EN10138, ASTM A 416/A, 416 M, and AS/NZS 4672 etc.

**Did You Know?**

Neotrex Steel Ltd. is the largest producer of Low Relaxation Prestressed Concrete (LRPC) strands in India, revolutionizing the construction landscape.

JSW Neostrands
LRPC Strands

# /// Neostrands

## Catalysing Growth of Infrastructure

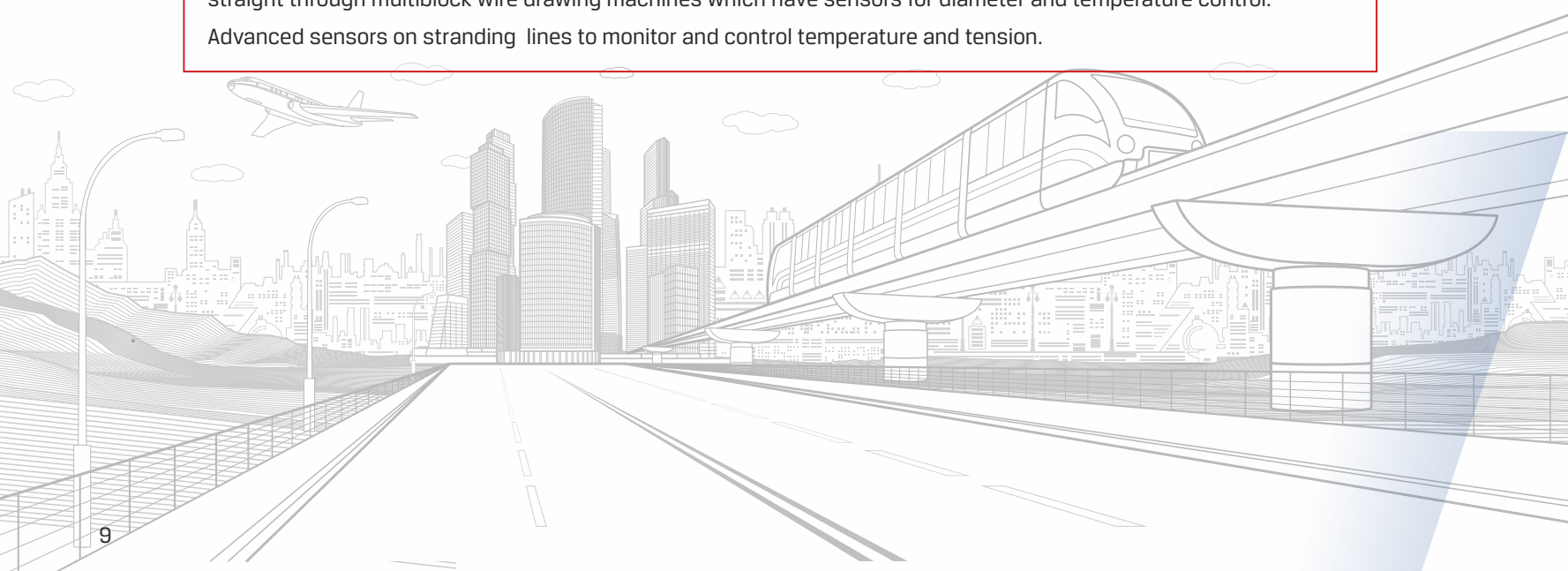
At JSW, we are dedicated to propelling the nation's growth by consistently delivering world-class products. Our technologically advanced Low Relaxation Prestressed Concrete Strands (LRPC) underscores this commitment.

These strands are expertly engineered to enhance and accelerate critical infrastructure projects across India and globally, adhering to both Indian and international standards for sustained, robust performance.

Our strands are highly dependable and engineered to optimally function under challenging conditions across various sectors. As an industry leader, Neotrex Steel Limited continues to catalyze the growth of infrastructure, both in India and abroad, by providing innovative solutions that elevate the standard of construction and engineering. With a strong focus on sustainable growth and a diverse workforce, Neotrex is well-equipped to drive the evolution of the construction segment, setting new standards for excellence and reliability.

**Did You Know?**

Neotrex has the latest technology in manufacturing ,including advanced and automatic pickling line, PLC controlled straight through multiblock wire drawing machines which have sensors for diameter and temperature control. Advanced sensors on stranding lines to monitor and control temperature and tension.



**Did You Know?**

Using LRPC strands can lead to a 10-12% reduction in overall construction costs due to lower steel requirements, cement consumption, and reduced labor costs.

# What is meant by low relaxation?

Stress relaxation means a gradual reduction in stress with time at constant strain. It occurs in steel when it is in a strained condition for an extended period and is a property of steel itself. This plays an important role while designing prestressed concrete structures, i.e., lower relaxation loss is better for the prestressed concrete structures.

The relaxation loss is checked at a controlled temperature of 20°C and 70% of the specified breaking load. In LRPC Strands, the relaxation loss is less than 2.5% after 1000 Hrs., as against 5% in Normal Relaxation Prestressed Concrete Strands (NRPC).

**Did You Know?**

The incorporation of LRPC strands significantly increases the speed of construction projects, allowing for faster project completion.

# /// Why Neostrands?

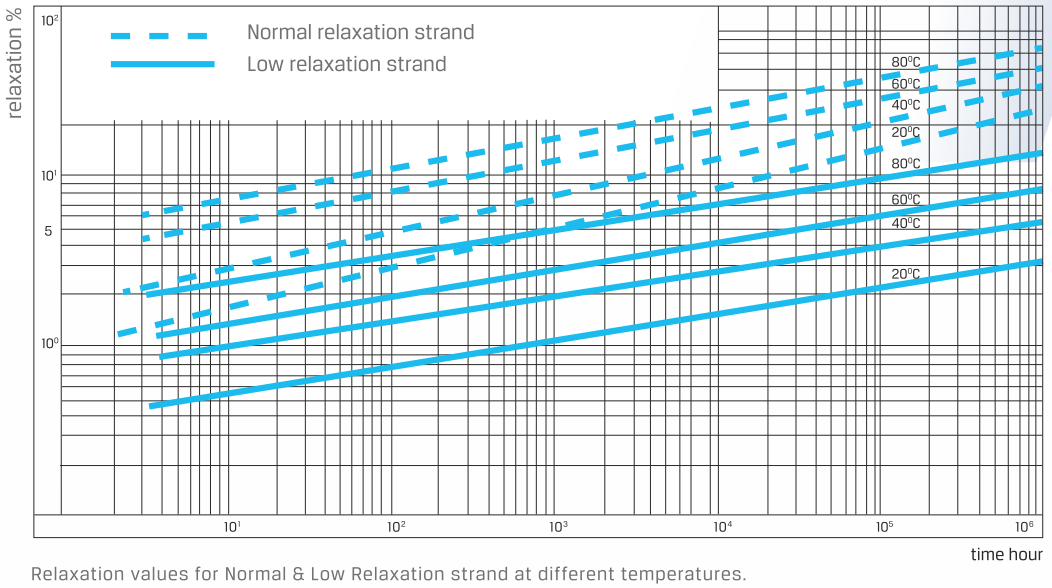
Some key properties of LRPC stands that make it an ideal choice.

- Compared to normal steels, it has low-stress relaxation loss at normal and higher temperatures
- Cost reduction: 10-12% saving in overall construction cost of the project, which comes out through reduction in steel requirement, cement consumption, number of pillars, shuttering work, labour cost, faster project completion, etc.
- Longer spans greater than 25-30 meters can be constructed with the use of prestressed concrete strands
- Speed of construction: With the use of LRPC strands, the speed of construction increases significantly
- High reliability: The thermochemical forces applied during the manufacturing of strands ensures there with is no strand failure at the construction sites.
- 'Hot Stretching' of the strands give necessarily straight strands, which eliminates post straightening activity
- Higher fatigue resistance
- Lighter structures can be built with high reliability

**Did You Know?**

LRPC strands exhibit a stress relaxation loss of less than 2.5% after 1000 hours at 20°C and 70% of the specified characterstic strength, compared to 5% in normal prestressed strands.

# /// Relaxation Curve



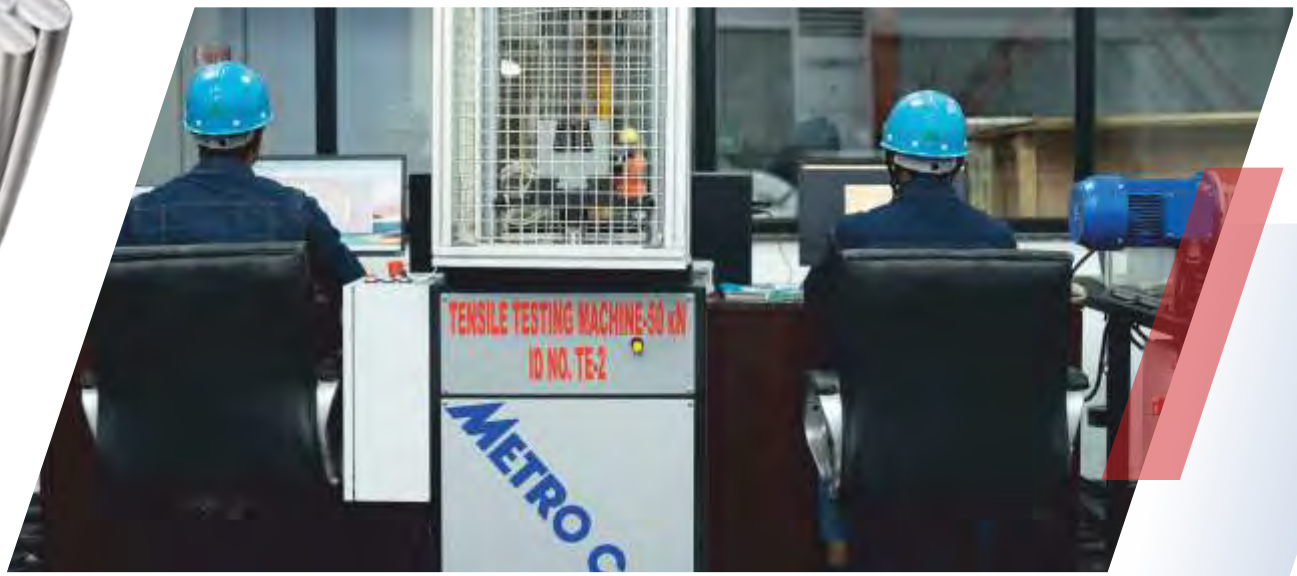

Relaxation values for Normal & Low Relaxation strand at different temperatures.
(Initial stress = 70% of specified characteristic strength).

# /// Product Quality & Approvals

At JSW, we deploy advanced technologies in steelmaking, modern plant and machinery, sophisticated test equipment and best process controls. We have a production capacity of approximately 1.8 million MT per annum of high-quality wire rods, suitable for critical and high-end applications.

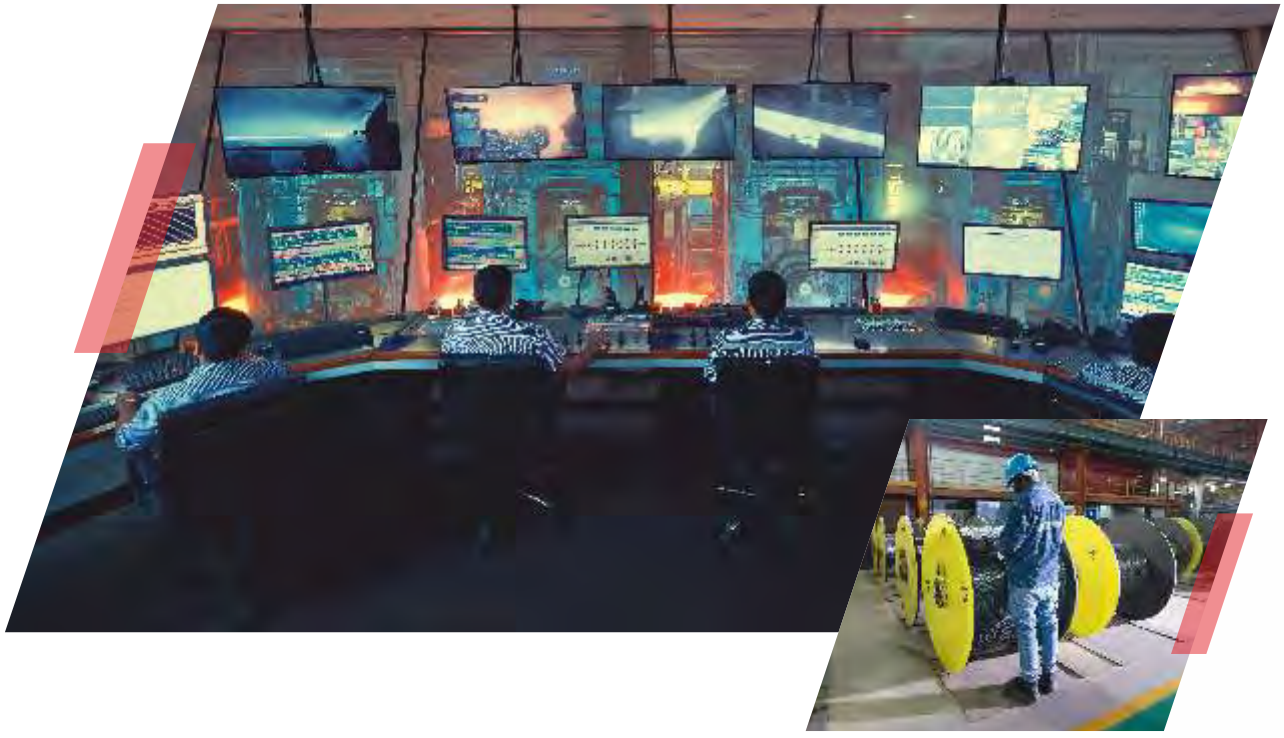
We manufacture LRPC strands with the latest technology. Our wire rod mills are the best-in-class and way ahead of the competition and are among the few-of-its-kind in the world. These superior quality wire rods lead to production of exceptional LRPC strands, which in turn deliver consistent performance to our construction sector customers.

We have BIS, ISO certificate, and NABL accredited test laboratory for our wires plant. We manufacture LRPC strands in sizes 3/8-inch, 1/2-inch and 5/8-inch diameter for our domestic and overseas customers as per IS14268:2022, BS5896, EN10138, ASTM A 416/A, 416 M, AS/ NZS 4672, etc.



# Cutting Edge Manufacturing Facilities

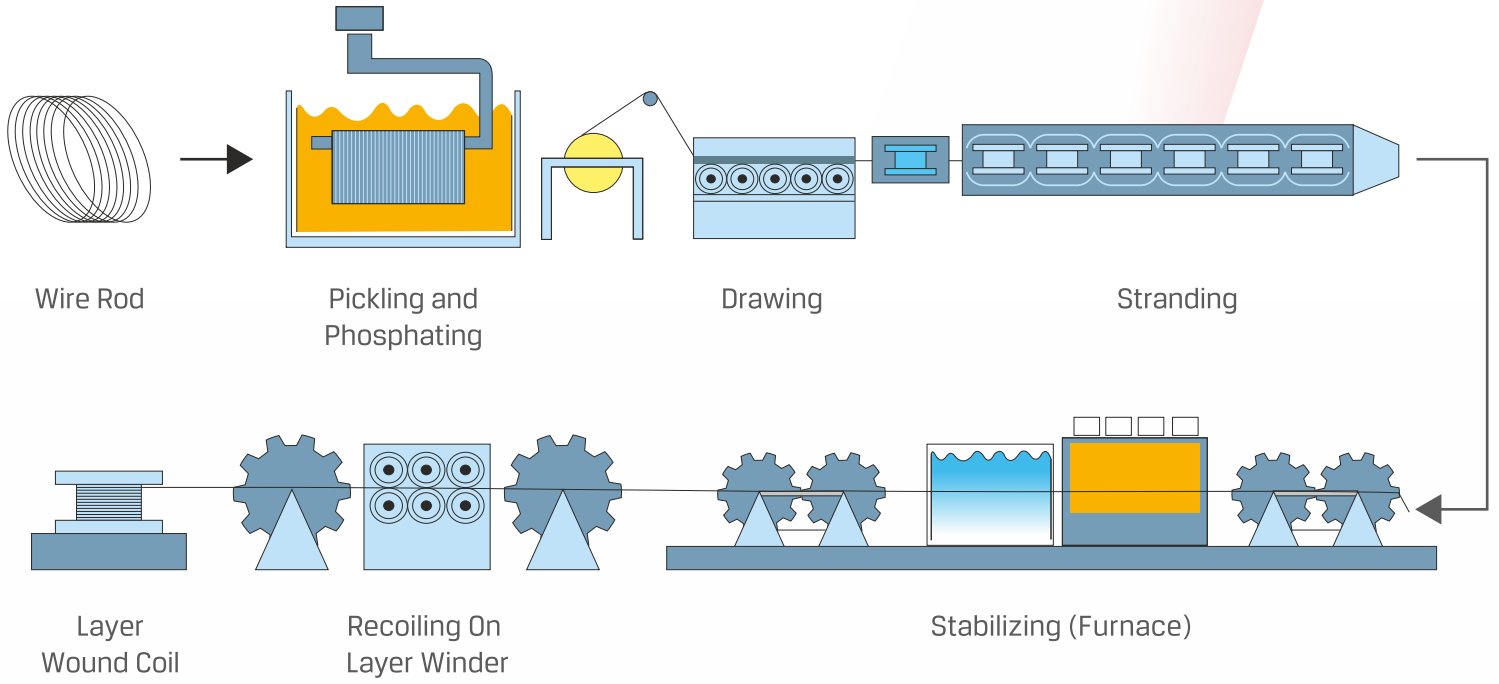
- Latest technology for manufacturing LRPC strands
- High-end wire rods from integrated steel facilities give zero defects related to wire rods in the end product
- Stringent process and quality controls at all the stages of manufacturing
- Latest electrical and electronic controls for better identification and removal of deviations, if any
- Strands conform to cryogenic test, fatigue test and deflected tensile test at independent global laboratories
- International standard certification like DCL ,ACRS ,UK-CARES etc

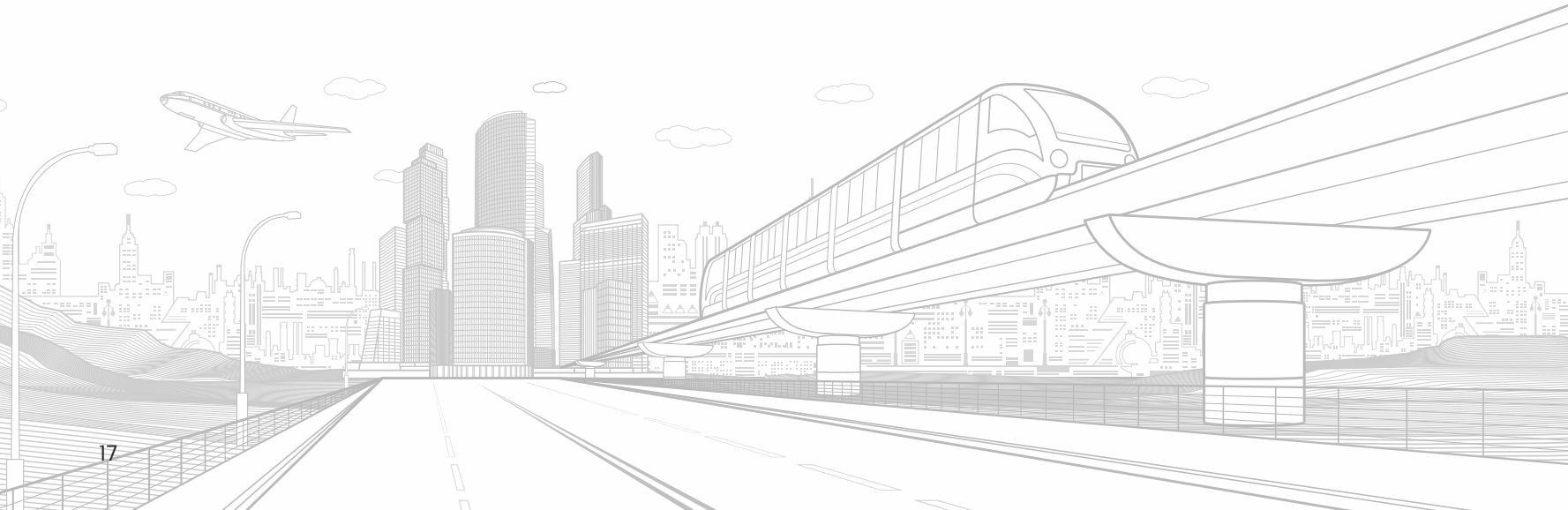


**Did You Know?**

Neotrex implements stringent process and quality controls at all manufacturing stages, ensuring consistent product quality and performance.

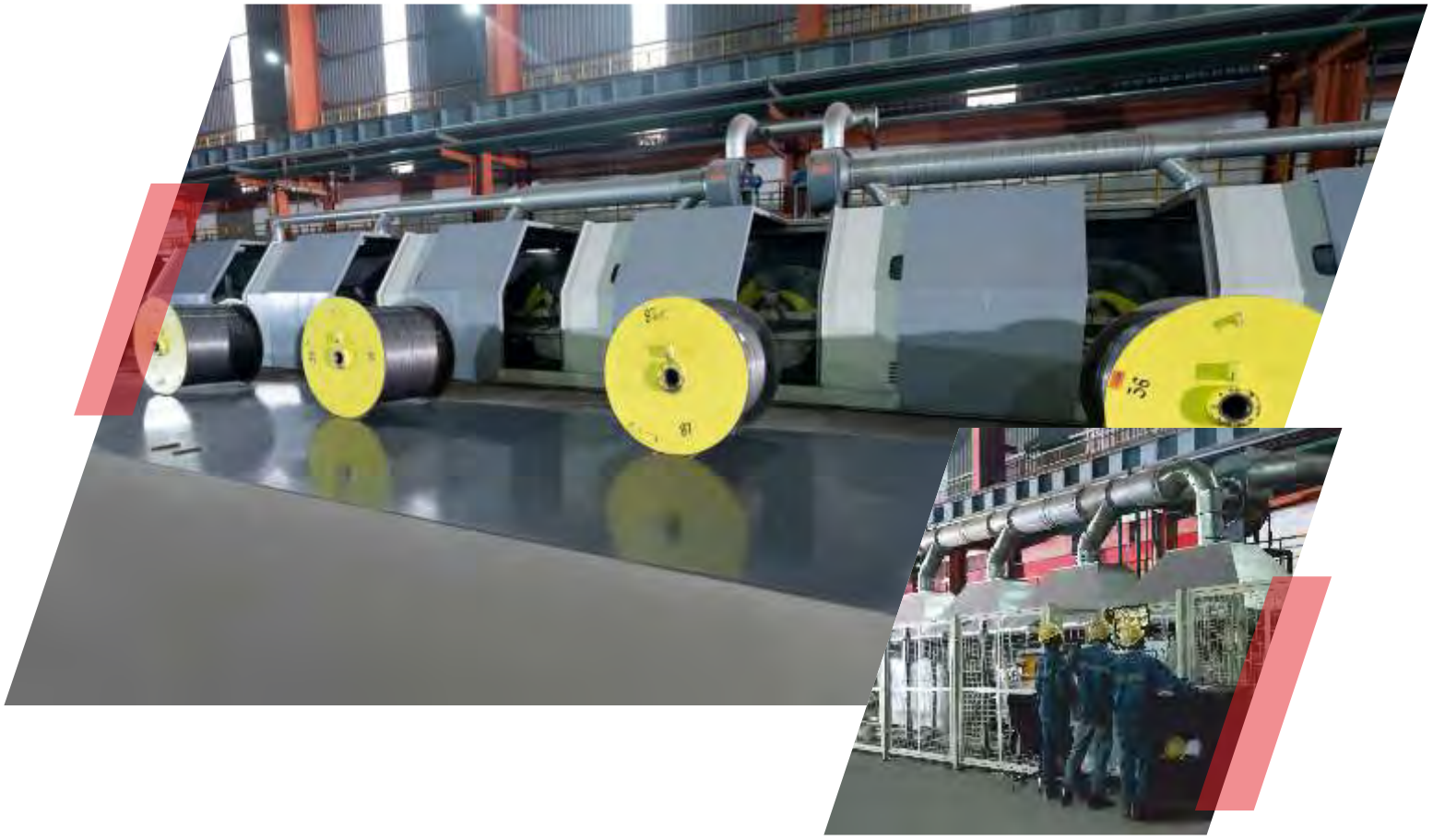
# LRPC Manufacturing Process Flow



# Manufacturing Line Features

- Advance automatic pickling line
- Multiblock and straight through wire drawing machines with sensors to control temperature and diameter of wire.
- Latest version of Scada for process control of various stages.
- Inline Oiling and 360 degree packing for better shelf life
- Precise length meter
- Fully computerized test equipments including UTM and relaxation testing machines



# /// National & International Quality Standards

## INDIAN STANDARDS

| Standard | Grade | Diameter | Tensile strength | Cross sectional Area | Mass per Metre | Tolerance on Nominal Mass per Metre | Minimum Breaking Load | Minimum 0.2 % Proof Load | 1000 hr. Relaxation Loss @ 70 % Max. | MOE | Streightness | Pitch | Minimum Elongation ( GL=600 mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | MPa | $mm^2$ | g/m | % | kN | kN | 70% | GPa Or $kN/mm^2$ | mm | Times of Nominal Strand Diameter | % Min |
| IS 14268: 2022 | 1670 P | 15.2 | 1670 | 139 | 1086 | ±2 | 232 | 204 | 2.5 | 195 | Arc height should be less than 25 mm for gauge length of 1000 mm | 12-16 | 3.5 |
| | | 18.0 | 1670 | 223 | 1742 | | 379 | 334 | | | | | |
| | 1770 P | 6.9 | 1770 | 29 | 226.5 | | 51.3 | 45.1 | | | | | |
| | | 9.0 | 1770 | 50 | 390.5 | | 88.5 | 77.9 | | | | | |
| | | 9.3 | 1770 | 52 | 406.1 | | 92 | 81 | | | | | |
| | | 9.6 | 1770 | 55 | 429.6 | | 97.4 | 85.7 | | | | | |
| | | 11.0 | 1770 | 70 | 546.7 | | 124 | 109 | | | | | |
| | | 12.5 | 1770 | 93 | 726.3 | | 165 | 145 | | | | | |
| | | 12.7 | 1770 | 100 | 781 | | 177 | 156 | | | | | |
| | | 15.2 | 1770 | 139 | 1086 | | 246 | 216 | | | | | |
| | | 15.7 | 1770 | 150 | 1172 | | 266 | 234 | | | | | |
| | | 18.0 | 1770 | 200 | 1562 | | 354 | 312 | | | | | |
| | 1860 C | 15.2 | 1820 | 165 | 1289 | | 300 | 264 | | | | | |
| | 1860 P | 6.9 | 1860 | 29 | 226.5 | | 53.9 | 47.4 | | | | | |
| | | 7.0 | 1860 | 30 | 234.3 | | 55.8 | 49.1 | | | | | |
| | | 8.0 | 1860 | 38 | 296.8 | | 70.7 | 62.2 | | | | | |
| | | 9.0 | 1860 | 50 | 390.5 | | 93 | 81.8 | | | | | |
| | | 9.3 | 1860 | 52 | 406.1 | | 96.7 | 85.1 | | | | | |
| | | 9.6 | 1860 | 55 | 429.6 | | 102 | 89.8 | | | | | |
| | | 11.0 | 1860 | 70 | 546.7 | | 130 | 114 | | | | | |
| | | 11.3 | 1860 | 75 | 585.8 | | 140 | 123 | | | | | |
| | | 12.5 | 1860 | 93 | 726.3 | | 173 | 152 | | | | | |
| | | 12.9 | 1860 | 100 | 781 | | 186 | 164 | | | | | |
| | | 13.0 | 1860 | 102 | 796.6 | | 190 | 167 | | | | | |
| | | 15.2 | 1860 | 139 | 1086 | | 259 | 228 | | | | | |
| | | 15.7 | 1860 | 150 | 1172 | | 279 | 246 | | | | | |
| | 1860 C | 12.7 | 1860 | 112 | 874.7 | | 208 | 183 | | | | | |
| | | 15.2 | 1860 | 165 | 1289 | | 307 | 270 | | | | | |
| | 1960 P | 9.0 | 1960 | 50 | 390.5 | | 98 | 87.2 | | | | | |
| | | 9.3 | 1960 | 52 | 406.1 | | 102 | 90.8 | | | | | |
| | | 9.6 | 1960 | 55 | 429.6 | | 108 | 96.1 | | | | | |
| | | 11.0 | 1960 | 70 | 546.7 | | 137 | 122 | | | | | |
| | | 11.3 | 1960 | 75 | 585.8 | | 147 | 131 | | | | | |
| | | 12.5 | 1960 | 93 | 726.3 | | 182 | 162 | | | | | |
| | | 12.9 | 1960 | 100 | 781 | | 196 | 174 | | | | | |
| | | 13.0 | 1960 | 102 | 796.6 | | 200 | 178 | | | | | |
| | | 15.2 | 1960 | 139 | 1086 | | 272 | 242 | | | | | |
| | | 15.7 | 1960 | 150 | 1172 | | 294 | 262 | | | | | |
| | 2060 P | 6.4 | 2060 | 25 | 195.3 | | 51.5 | 45.8 | | | | | |
| | | 6.9 | 2060 | 29 | 226.5 | | 58.1 | 51.7 | | | | | |
| | | 7.0 | 2060 | 30 | 234.3 | | 61.8 | 55 | | | | | |
| | | 8.6 | 2060 | 45 | 351.5 | | 92.7 | 82.5 | | | | | |
| | | 11.3 | 2060 | 75 | 585.8 | | 155 | 138 | | | | | |
| | | 12.5 | 2060 | 93 | 726.3 | | 192 | 171 | | | | | |
| | | 12.9 | 2060 | 100 | 781 | | 206 | 183 | | | | | |
| | | 6.9 | 2160 | 29 | 226.5 | | 60.9 | 54.2 | | | | | |

## AUSTRALIAN AND NEW ZEALAND STANDARDS

| Standard | Grade | Nominal Diameter | Diameter tolerance | Nominal area of strand | Nominal weight (approx.) | Weight Tolerance | Pitch | Straightness | Minimum Breaking Load | | Minimum Yield Load | | Minimum Elongation (GL=600 mm) | 1000 hr. Relaxation Loss (% Max) | | MOE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | mm | $mm^2$ | Kg/1000m | % | Times of diameter | | Kg | kN | kN 0.1% | kN 0.2% | % | 70% | 80% | Gpa Or $kN/mm^2$ |
| AS/ NZS 4672-2007 | 1720 | 9.30 | - | 51.6 | 405 | +4/-2 | 12-18 | Arc height should be less than 25 mm for gauge length of 1000 mm | 9055 | 88.8 | 72.8 | 75.4 | 3.5 | - | 3.5 (B) | 185-205 |
| | 1850 | 9.50 | - | 55 | 432 | | | | 10401 | 102 | 83.6 | 86.6 | | | | |
| | 1870 | 11.10 | - | 73.9 | 580 | | | | 14072 | 138 | 113 | 117 | | | | |
| | 1720 | 12.40 | - | 92.9 | 729 | | | | 16315 | 160 | 131 | 136 | | | | |
| | 1870 | 12.70 | - | 98.7 | 774 | | | | 18763 | 184 | 151 | 156 | | | | |
| | 1840 | 12.90 | - | 100 | 785 | | | | 18967 | 186 | 158 | 165 | | | | |
| | 1750 | 15.20 | - | 143 | 1122 | | | | 25493 | 250 | 205 | 212 | | | | |
| | 1830 | 15.20 | - | 143 | 1122 | | | | 26615 | 261 | 214 | 222 | | | | |
| | 1780 | 18.00 | - | 190 | 1492 | | | | 34466 | 338 | 277 | 287 | | | | |
| | 1830 | 18.00 | - | 190 | 1492 | | | | 35995 | 353 | 289 | 300 | | | | |
| AS 1311-1987 | Super | 9.30 | +/- 0.4 | 55 | 430 | - | 12-16 | | 10401 | 102 | | 86.7 | | 2.5 | - | |
| | | 10.90 | | 75 | 590 | | | | 14072 | 138 | - | 117.3 | | | | |
| | | 12.70 | | 100 | 785 | | | | 18762 | 184 | | 156.4 | | | | |
| | | 15.20 | | 143 | 1125 | | | | 25493 | 250 | | 212.5 | | | | |

## AMERICAN STANDARDS

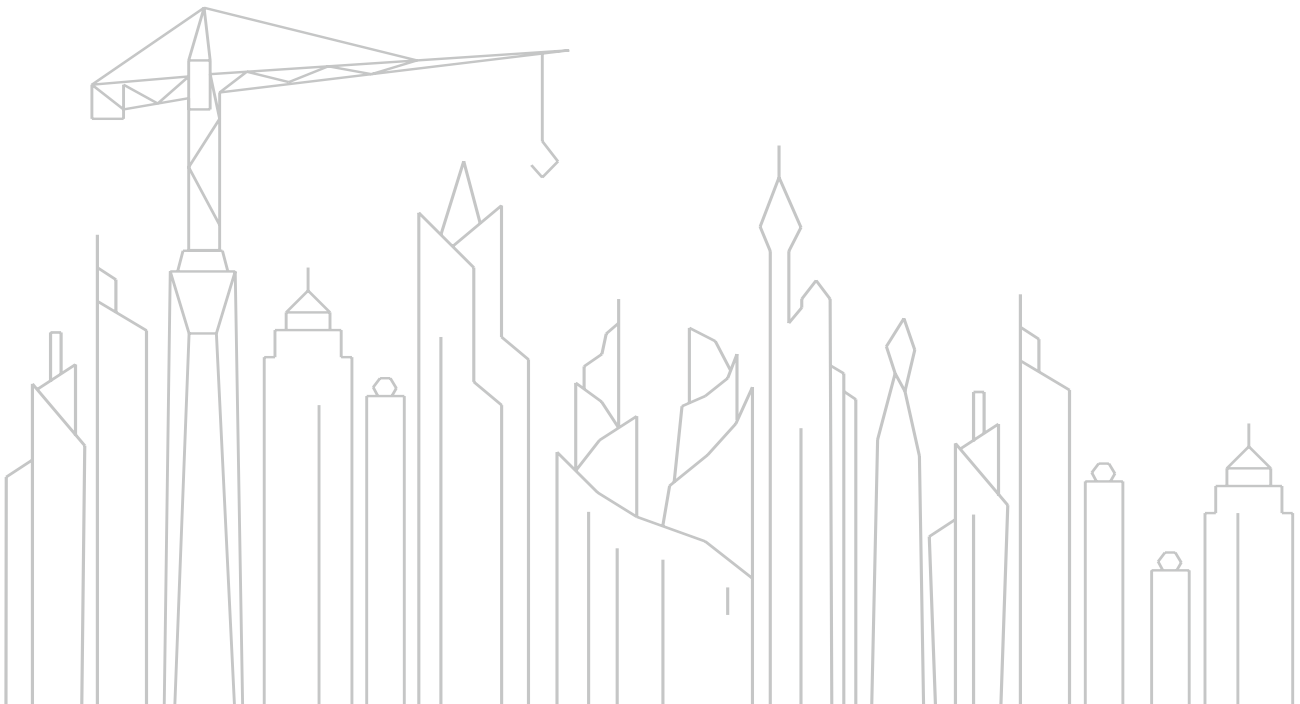
| Standard | Grade | Nominal Diameter of strand | Diameter tolerance (approx.) | Nominal area | Nominal weight | Pitch | Minimum Breaking Load | | Minimum Yield Load | Minimum Elongation | 1000 hr. Relaxation Loss (% Max) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | mm | $mm^2$ | Kg/1000 m | Times of diameter | Kg | kN | kN 1.0% | % | 80% |
| ASTM A416-2018 | 1725 | 9.50 | +/- 0.4 | 51.6 | 405 | 12-16 | 9075 | 89 | 80.1 | 3.5 | 3.5(B) |
| | | 11.10 | | 69.7 | 548 | | 12247 | 120.1 | 108.1 | | |
| | | 12.70 | | 92.9 | 730 | | 16326 | 160.1 | 144.1 | | |
| | | 15.20 | | 139.4 | 1094 | | 24494 | 240.2 | 216.2 | | |
| | 1860 | 9.53 | +0.65/-0.15 | 54.8 | 432 | | 10432 | 102.3 | 92.1 | | |
| | | 11.11 | | 74.2 | 582 | | 14062 | 137.9 | 124.1 | | |
| | | 12.70 | | 98.7 | 775 | | 18732 | 183.7 | 165.3 | | |
| | | 15.24 | | 140 | 1102 | | 26584 | 260.7 | 234.6 | | |
| | | 15.75 | | 149.2 | 1173 | | 28287 | 277.4 | 249.7 | | |

## BRITISH STANDARDS

| Standard | | Grade | Nominal Diameter | Diameter tolerance | Nominal area of (approx.) | Nominal weight | Weight Tolerance | Pitch | Straightness | Minimum Breaking Load | Minimum Yield Load | | Minimum Elongation (GL=600 mm) | 1000 hr. Relaxation Loss (% Max) | | MOE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mm | mm | $mm^2$ | Kg/ 1000 m | % | Times of Diameter | | kN | kN | | % | 70% | 80% | GPa Or $kN/mm^2$ |
| | | | | | | | | | | | 0.1% | 1.0% | | | | |
| BS 5896-1980 | Standard | 1770 | 9.3 | +0.3/-0.15 | 52 | 408 | +4/-2 | 12-18 | Arc height should be less than 25mm for gauge length of 1000 mm | 92 | 78 | 81 | - | | 4.5 (A) | 185-205 |
| | | 1860 | 9.3 | | 52 | 408 | | | | 97 | 82 | 85 | | | | |
| | | 1770 | 11.0 | | 71 | 557 | | | | 125 | 106 | 110 | | | | |
| | | 1770 | 12.5 | +0.4/-0.2 | 93 | 730 | | | | 164 | 139 | 144 | | | | |
| | | 1860 | 12.5 | | 93 | 730 | | | | 173 | 147 | 152 | | | | |
| | | 1670 | 15.2 | | 139 | 1090 | | | | 232 | 197 | 204 | | | | |
| | Super | 1860 | 15.2 | +0.4/-0.2 | 139 | 1090 | +4/-2 | 12-18 | | 259 | 220 | 228 | | | | |
| | | 1670 | 15.2 | | 139 | 1090 | | | | 232 | 197 | 204 | | | | |
| | | 1860 | 9.6 | +0.3/-0.15 | 55 | 432 | | | | 102 | 87 | 90 | | | | |
| | | 1860 | 11.3 | | 75 | 590 | | | | 139 | 118 | 122 | | | | |
| | | 1860 | 12.9 | +0.4/-0.2 | 100 | 785 | | | | 186 | 158 | 163 | | | | |
| | | 1770 | 15.7 | | 150 | 1180 | | | | 265 | 225 | 233 | | | | |
| | | 1860 | 15.7 | | 150 | 1180 | | | | 279 | 237 | 246 | | | | |
| BS 5896-2012 | | Y1670S7 | 15.2 | | 139 | 1086 | +2/-2 | 14-18 | | 232-267 | 204 | - | 3.5 | | 4.5 (A) | 195 |
| | | Y1700S7G | 18.0 | | 223 | 1742 | | | | 379-436 | 334 | | | | | |
| | | Y1770S7 | 9.3 | | 52 | 406.1 | | | | 92-106 | 81 | | | | 2.5 (A) | |
| | | Y1770S7 | 11.0 | | 70 | 546.7 | | | | 124-143 | 109 | | | | | |
| | | Y1770S7 | 12.5 | | 93 | 726.3 | | | | 165-190 | 145 | | | | | |
| | | Y1770S7 | 15.7 | | 150 | 1172 | | | | 266-306 | 234 | | | | | |
| | | Y1820S7G | 15.2 | | 165 | 1289 | | | | 300-345 | 264 | | | | | |
| | | Y1860S7 | 8.0 | | 38 | 296.8 | | | | 70.7-81.3 | 62.2 | | | | | |
| | | Y1860S7 | 9.3 | | 52 | 406.1 | | | | 96.7-111 | 85.1 | | | | | |
| | | Y1860S7 | 9.6 | | 55 | 429.6 | | | | 102-117 | 89.8 | | | | | |
| | | Y1860S7 | 11.3 | | 75 | 585.8 | | | | 140-161 | 123 | | | | | |
| | | Y1860S7 | 12.5 | | 93 | 726.3 | | | | 173-199 | 152 | | | | | |
| | | Y1860S7 | 12.9 | | 100 | 781 | | | | 186-214 | 164 | | | | | |
| | | Y1860S7 | 15.2 | | 139 | 1086 | | | | 259-298 | 228 | | | | | |
| | | Y1860S7 | 15.7 | | 150 | 1172 | | | | 279-321 | 246 | | | | | |
| | | Y1860S7G | 12.7 | | 112 | 874.7 | | | | 208-239 | 183 | | | | | |

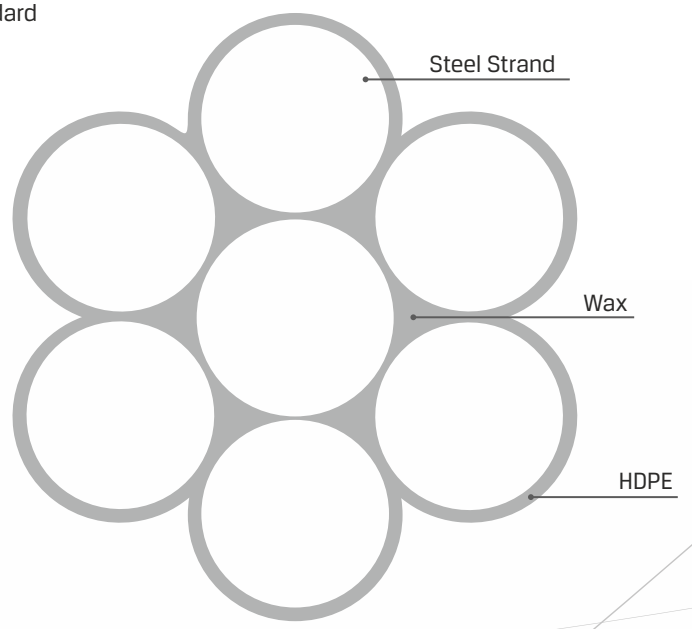
## EUROPEAN STANDARDS

| Standard | Grade | Nominal Diameter | Nominal area | Nominal weight (approx.) | Weight Tolerance | Pitch | Straightness | Minimum Breaking Load | Minimum Yield Load | Minimum Elongation (GL=600 mm) | 1000 hr. Relaxation Loss (% Max) | | MOE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | $mm^2$ | Kg/1000 m | % | Times of diameter | | kN | kN<br>0.1% | % | 70% | 80% | GPa Or $kN/mm^2$ |
| prEN 10138-2009 | Y1770S7 | 9.30 | 52 | 406.1 | +2/-2 | 14-18 | Arc height should be less than 25 mm for gauge length 1000 mm | 92-106 | 81 | 3.5 | - | 4.5 (A)<br>2.5 (A) | 195 |
| | | 11.00 | 70 | 546.7 | | | | 124-143 | 109 | | | | |
| | | 12.50 | 93 | 726.3 | | | | 165-190 | 145 | | | | |
| | | 15.20 | 139 | 1086 | | | | 246-283 | 216 | | | | |
| | Y1860S7 | 15.70 | 150 | 1172 | | | | 266-306 | 234 | | | | |
| | | 9.30 | 52 | 406.1 | | | | 96.7-111 | 85.1 | | | | |
| | | 9.60 | 55 | 429.6 | | | | 102-117 | 89.8 | | | | |
| | | 11.30 | 75 | 585.8 | | | | 140-161 | 123 | | | | |
| | | 12.50 | 93 | 726.3 | | | | 173-199 | 152 | | | | |
| | | 12.90 | 100 | 781 | | | | 186-214 | 164 | | | | |
| | | 15.20 | 139 | 1086 | | | | 259-298 | 228 | | | | |
| | | 15.70 | 150 | 1172 | | | | 279-321 | 246 | | | | |
| | Y1860S7G | 12.70 | 112 | 874.7 | | | | 208-239 | 183 | | | | |
| | | 15.20 | 165 | 1289 | | | | 307-353 | 270 | | | | |
| | Y1820S7G | 15.20 | 165 | 1289 | | | | 300-345 | 264 | | | | |



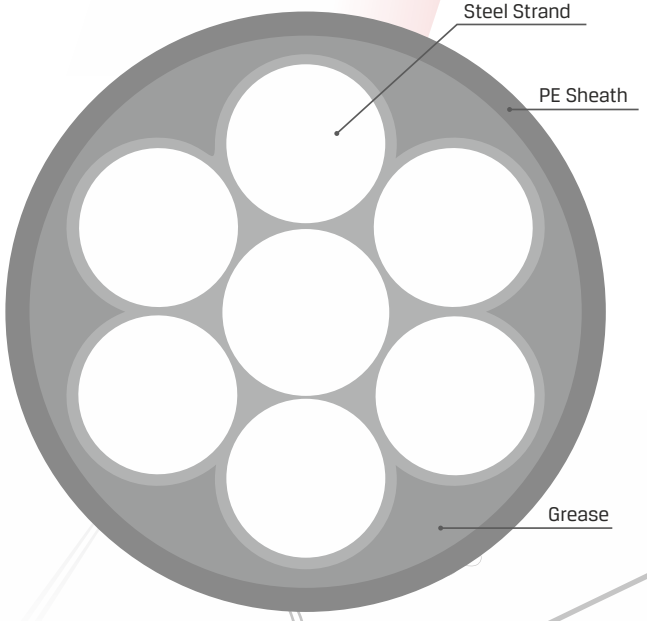
# /// Wax filled, extruded PE coated PC strand

- Bare strand in the diameter of 15.2-15.7mm
- Wax thickness 1.25+0.5mm.
- Coated strand unit weight approx. 1.3 kg/m.
- Bare strand conforming to IS 14268 or any other international standard as per the project specification can be provided.
- Properties of the anti-corrosion filler(wax) compound:
- Congealing point
- Cone penetration
- Operating temperature range
- Oxidation stability
- Corrosion protection
- Compatibility with sheathing
- Dropping point
- Reduced friction
- Improved Bounding
- Longevity and Durability



# Unbonded grease filled PE coated PC strand

- Bare strand in the diameter of 12.9mm.
- Grease weight – Minimum 37 to 45 g/m, depending upon strand size.
- PE sheathing thickness - 〉= 1.25mm.
- PE color – RAL 2003 (saffron)
- PROPERTIES-
- Corrosion Protection
- Enhanced Durability
- Sheath Protection
- Improved flexibility
- Reduced Frictional loss
- Even Stress distribution
- Preventing Fretting
- Long-Term Reliability
- High fatigue resistance
- Suitable For Various Environment




# /// Handling & Storage Of Coils At Site

- Coils are to be stored in a closed, dry shed and on some elevated platform so that it doesn't come in direct contact with soil or water. This is very important if the coils are stored for a longer period at the site. In such cases, vapour phase inhibitors should be used. Remember that the pit holes formed due to excessive corrosion may lead to premature failure during prestressing, making the coils unusable.
- Coils to be unloaded safely with the help of a crane or similar arrangement and should not be dropped off the vehicle.
- For strand cutting, abrasive disc cutter or shear cutter is to be used. The strands should not be cut with flame or welding operation as it changes the microstructure of the steel and in turn the properties.
- The strands and the coil straps are to be cut with caution with necessary anchoring or holding so that it doesn't bounce. Please note that the straps are tied and the strands are coiled under tension and may cause serious injuries if not handled with care.
- Failure to follow necessary precautions against damage and corrosion can result in severe repercussions later.

# Neostrands Strand Applications

LRPC strands are used in pre-stressed concrete girders for Roads, Bridges & Flyovers, Metros, Nuclear Reactors, LNG Tanks, Slabs in Skyscrapers, Dams, Aqueducts, Jetties, Rock Anchoring & Soil Stabilization, Cement Silos and Hangars.



**Did You Know?**

The strands adhere to Indian and international standards including IS 14268: 2022, BS 5896, En10138, ASTM A 416/A, 416 M, and AS/ NZS 4672 etc.

# /// Metros

# /// Bridges & Flyovers

# /// High Rise & Commercial Buildings

# /// Nuclear Reactors

# /// LNG Tanks

# /// Dams

# /// JSW- Neotrex: Customers Universe

























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JSW steel Ltd.
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Near Novotel Hotel
Opp Karnavati Club S.G.Highway
Ahmedabad -380054
Mb:08128833390

**AURANGABAD**
JSw steel Ltd
Office no 306,3rd floor,05/1 A,B,C
East Beside ,Prozone Mall
Chikaithana MIDC Aurangabad

**BANGALORE**
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The Estate , Nest to Manipal Centre
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Dickenson road Bangalore-
560042
Tel ( 08042448888)

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JSS STP ,2nd Floor , Block B
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Tel: 0674-6658904

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**GUWAHATI**
]SW Steel Ltd.
6th Floor, Unique Avenue, Front
Side,
Opp. Fire Station,
Super Market,
Dispur, Guwahati - 781 005,

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Road,
Gokul Road,
Hubli - 580030

**HYDERABAD**
]SW Steel Ltd.
Babu Khan Millenniums Centre,
7'" Floor, Somajiguda, Hyderabad
-500082
Tel : (040) 27846669 / 79

**INDORE**
JSW Steel Ltd.
Bloc No: 22,23,24, Scheme no.
54, Princess Business
Sky Park,
Commercial, opp. Orbit, AB Road,
Indore - 452010
Tel: (0731) 2532156 to 59

**JAIPUR**
JSW Steel Ltd.' 3rd floor, 304-
307, Signature Tower,
Behind Police HQ,
Lal kothi,
Tonk Phatak,
Jaipur- 302015 (Rajasthan)
Tel: (0141) 4629200

**KANPUR**
JSW Steel Ltd.
2ndFloor, 14/75,
Plot No. 1, Gopal Vihar,
Civil Lines, Kanpur – 208001

**KOCHI**
JSW Steel Ltd.
34/138L3, New No 41/150A3, 2nd
Floor,
Above Dhe Puttu Restaurant
Service Road
NH By-pass
Edapally, Kochi ,
Kerala 682024

**KOLKATA**
JSW Steel Ltd.
Godrej Waterside, 101" Floor,
Tower - 1 Unit No 1003,
Plot- DP-5 Sector V, Salt Lake City
Kolkata - 700091
Tel : (033) 40002020

**LUDHIANA**
JSW Steel Ltd.
3'd Floor, SCO 7-8, Canal Colony,
Firoz Gandhi Market, Pakhowal
Road, Ludhiana - 141008 Tel.:
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**MUMBAI**
JSW Steel Ltd
JSW Centre ,Bandra Kurla
Complex Bandra East Mumbai-
400051
Mb: 022-42863000

**NAGPUR**
JSW Steel Ltd.
L&T Building,
3'º Floor (Back Side), Plot No: 12,
Shivaji Nagar, Nagpur: 440 010

**NAVI MUMBAI**
JSW Steel Ltd.
1101-1102 a 1704-1707, 17'" Floor,
Plot No. 4 a 6, Greenscape Cyber
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Navi Mumbai - 400 705 Tel : 022
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Trapezoid, C-27, 91" Floor, Sector-
62, Noida, Uttar Pradesh

**PATNA**
JSW Steel Ltd.
Sai Tower, 3'd Floor, Rekha
House,
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800 001
Tel.: 0612 - 6696205

**PUNE**
JSW Steel Ltd.
EPI Centre, 2nd Floor,
CST No 4/6,
Above Royal Enfield Showroom,
Shivajinagar,
Wakadewadi,
Pune - 411005
Tel: (020) 66662300

**VIJAYWADA**
JSW Steel Ltd
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Beside MG Road, Punnamma
Thota, Vijaywada - 520010

## Neotrex Steel Limited

A Subsidiary of JSW Steel

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