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A $11 billion conglomerate, JSW Group is a part of the O. P. Jindal Group. JSW has set up business facilities in various core sectors of India, with verticals that are exploring innovative and sustainable avenues in steel, energy, infrastructure and cement. The Group is paving the way for India’s development as a global superpower.

JSW Steel is India’s leading steel producer and among the world’s most illustrious steel company. The Group is also leading in every sector that it operates in. By maintaining exemplary operational efficiencies, JSW Energy has grown ten-fold in just three years, while JSW Cement creates the building blocks of India with its environment friendly products. JSW Infrastructure is contributing to the nation’s development by providing world class services to clients through state-of-the-art ports, terminals, shipyards and other facilities.

JSW Group is committed to creating more smiles at every step of the journey. JSW Foundation, the Group’s CSR and sustainability arm, is in constant pursuit of making life better for communities with its various initiatives in the fields of health, education, livelihood and sports, along with art and culture.

JSW Group is proud to be charting a course to excellence that creates opportunities for every Indian and leads to the creation of a sustainable, dynamic and developed nation.
JSW STEEL LTD.

The flagship company of USD 11 billion JSW Group, JSW Steel is one of India’s leading integrated steel manufacturers with a capacity of 14.3 MTPA. It is one of the fastest growing companies in India with a footprint in over 160 countries. With state-of-the-art manufacturing facilities located in Karnataka, Tamil Nadu and Maharashtra, it is recognized for its innovation and quality. JSW offers a wide gamut of steel products that includes Hot Rolled, Cold Rolled, Bare & Pre-painted Galvanized & Galvalume®, TMT Rebars, Wire Rods and Special Steel. JSW Steel continues to enhance its capabilities to meet the rapidly changing global market needs. To stay on the leading edge of technical advancement, JSW has entered into technological collaboration with JFE Steel Corp., Japan to manufacture high strength and advanced high strength steel for the automobile sector. JSW Steel has also entered into a joint venture with Marubeni-Itochu Steel Inc. Tokyo, to set up a state-of-the-art steel processing center. To strengthen its global network, the Company has also acquired a Pipe and Plate making steel mill in Baytown, Texas in USA. By 2025, JSW Steel aims to produce 40 million tons of steel annually.

JSW STEEL COATED PRODUCTS LTD.

JSW Steel Coated Products Limited is 100% subsidiary company of JSW Steel, having state-of-the-art manufacturing facilities in the state of Maharashtra.

JSW Steel Coated Products Ltd. is India’s largest manufacturer and exporter of Coated Steel as well as Colour Coated Steel. The production facilities, Tarapur and Vasind Works, are located in the vicinity of major ports. The company’s Kalmeshwar Works is centrally located near Nagpur to serve across regions. JSW is an ISO 9001: 2008 Certified Organization and the first licensee producer for Galvalume® in India. The Tarapur plant is specialized in manufacturing Ultra-Thin Coated Products. The company is also a manufacturer of appliance grade colour coated products. JSW’s Kalmeshwar Works is the first producer of Galvanized and Colour Coated Steel in India. JSW also has introduced indigenously manufactured Pre-Coated Metal & Vinyl Coated Metal, for the first time in India, as it focuses on the Appliance Industry.
SETTING BENCHMARKS

- First continuous annealing line in India
- Widest Cold Rolling Mill (upto 1870 mm width)
- India’s Largest Coated Steel producer
- First Licensee Galvalume® producer in India
- JSW Steel Salem Works is the largest integrated alloy and special steel plant in India
- Widest Hot Strip Mill in India: 25.4 x 2150 mm
- India’s Most Modern and Largest Vertical Caster - 300/260/220 x 2200 mm
- India’s Largest Blast Furnace - 3.2 MTPA at Vijayanagar
- India’s only Multi-Radii Bloom Caster (12/16/30 ml operational at Salem Works
- ZERO EFFLUENT discharge for greener & cleaner environment
- 1.5 million trees planted at Vijayanagar Works, transforming the area into a green oasis
THE MANUFACTURING FACILITY

JSW Steel Vijayanagar plant is the first integrated steel plant to reach 10 MTPA capacity at a single location in India. It is the first plant in India to use the Corex technology for hot metal production.

The first hot strip mill at Vijayanagar was commissioned in 1997. Since then it has grown exponentially and now has an installed capacity to produce 10 MTPA of steel.

Located at a remote village Toranagalli, North Karnataka in the Bellary-Hospet iron ore belt, it is fully integrated steel plant and well-connected with both Goa and Chennai ports.

Unique features

• Houses India’s largest blast furnace and the widest hot strip mill
• The only plant in India with paircross technology and twin-stand reversible cold-rolling mill
• The highest productivity steel plant in India, producing 800-plus tonnes per person per annum
• Recognised for its ‘zero-effluent discharge’ status; it reuses more than 95 per cent of process waste
• Low carbon footprint as it recycles 96% of coke oven gas for power generation
• Uses sophisticated ambient air control infrastructure beyond and has reduced gas flaring to lower levels

JSW WIRE ROD

JSW’s Wire Rods are produced through the cutting-edge Mill at Vijayanagar. JSW’s Wire Rod is manufactured in High/Medium/Low carbon grades, Electrode grade, CHQ grades. Dimensional accuracy is guaranteed by an automatic thickness control system using advanced numerical models.
ADVANTAGE JSW

- High Speed Wire Rod Mill (120mtr/sec)
- Low Sulphur and Phosphorous Content (0.005% - 0.035%)
- Low Tramp Elements
- Excellent Mechanical and Consistent Chemical Properties

THE MANUFACTURING PROCESS
FACILITIES AND EQUIPMENTS

Reheating furnace
- State of art walking beam furnace with auto control air fuel ratio of capability 160Ton/Hr
- Minimum scale generation around 0.50% throughout the coil

Descaler
- High pressure Descaler of 230bar(max), ensuring removal of scale deposition on the billets surface

230/150 Rod Tekisun Mill
- 4 Strands with unique facilities which maintains narrow band of ovality and size tolerance

Stelmar Conveyor
- Optiflex control with 180 mts, controlled cooling with uniform mechanical & metallurgical properties. Standard cooling, Retarded cooling and Forced cooling to process different grades

Compacting & Strapping unit
- Compaction at a maximum capacity of 40 Tons, which produce compact coils of superior quality

WIRE ROD PRODUCT SPECIFICATIONS

Coil Particulars
- Inner Diameter: 750 mm [min.]
- Outer Diameter: 1250 mm [max.]
- Coil Height: 2 meter [max.]
- Coil Weight: 2.600 MT [max.]
- Packaging: 4 Steel Straps Binding [min.]

Supply Specifications
- Surface Defects: 1.0% of Diameter [max.]
- De-Carburation: 1.0% of Diameter [max.]
- Internal Soundness: Free from Pits, Seams, Blow holes etc.
- Supply Condition: as per TDC
- Control in UTS for High Carbon: 60 N/mm² (6Kg/mm², within a ring)

Size Range [in mm]
- 5.2, 5.5, 6.5, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22
DIMENSIONAL TOLERANCE

<table>
<thead>
<tr>
<th>Diameter [mm]</th>
<th>Tolerance [mm]</th>
<th>Ovality [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.20 to 8.50</td>
<td>+/- 0.30</td>
<td>0.30 max.</td>
</tr>
<tr>
<td>9.00 to 14.00</td>
<td>+/- 0.25</td>
<td>0.40 max.</td>
</tr>
<tr>
<td>16.50 to 22.00</td>
<td>+/- 0.30</td>
<td>0.40 max.</td>
</tr>
</tbody>
</table>

GRADES AND SPECIFICATIONS

LOW CARBON WIRE ROD GRADES

<table>
<thead>
<tr>
<th>GRADE</th>
<th>SIZE [mm]</th>
<th>CHEMICAL COMPOSITION</th>
<th>MECHANICAL PROPERTIES</th>
<th>MECHANICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>%C [max.]</td>
<td>%Mn [max.]</td>
<td>%Si [max.]</td>
</tr>
<tr>
<td>SAE 1005</td>
<td>5.20-22.0</td>
<td>0.06</td>
<td>0.35</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1006</td>
<td>5.20-22.0</td>
<td>0.08</td>
<td>0.25-0.60</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1008</td>
<td>5.20-22.0</td>
<td>0.10</td>
<td>0.30-0.50</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1010</td>
<td>5.20-22.0</td>
<td>0.08-0.15</td>
<td>0.30-0.60</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1012</td>
<td>5.20-22.0</td>
<td>0.10-0.15</td>
<td>0.30-0.60</td>
<td>0.03</td>
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<tr>
<td>SAE 1015</td>
<td>5.20-22.0</td>
<td>0.13-0.19</td>
<td>0.30-0.60</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1018</td>
<td>5.20-22.0</td>
<td>0.15-0.20</td>
<td>0.60-0.90</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1020</td>
<td>5.20-22.0</td>
<td>0.18-0.23</td>
<td>0.30-0.60</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1022</td>
<td>5.20-22.0</td>
<td>0.18-0.23</td>
<td>0.70-1.00</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1025</td>
<td>5.20-22.0</td>
<td>0.22-0.28</td>
<td>0.30-0.60</td>
<td>0.03</td>
</tr>
<tr>
<td>SAE 1029</td>
<td>5.20-22.0</td>
<td>0.23-0.29</td>
<td>0.90-1.20</td>
<td>0.03</td>
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</table>

MEDIUM CARBON WIRE ROD GRADES

<table>
<thead>
<tr>
<th>GRADE</th>
<th>SIZE [mm]</th>
<th>CHEMICAL COMPOSITION</th>
<th>MECHANICAL PROPERTIES</th>
<th>MECHANICAL PROPERTIES</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>%C [max.]</td>
<td>%Mn [max.]</td>
<td>%Si [max.]</td>
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<td>SAE1024</td>
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<td>SAE1025</td>
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<td>SAE1035</td>
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<td>SAE1030</td>
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<td>0.28-0.34</td>
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### High Carbon Wire Rod Grades

<table>
<thead>
<tr>
<th>Grade</th>
<th>Size</th>
<th>Chemical Composition</th>
<th>Mechanical Properties</th>
<th>End Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>%C</td>
<td>Mn</td>
<td>%S (max.)</td>
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<tr>
<td>HC 5/55</td>
<td>5.5</td>
<td>0.51-0.55</td>
<td>0.60-0.90</td>
<td>0.015</td>
</tr>
<tr>
<td></td>
<td>6.5</td>
<td>800</td>
<td>4.0</td>
<td>Wire Rope &amp; Fine Wire</td>
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<tr>
<td>HC 5B/62</td>
<td>5.5</td>
<td>0.58-0.62</td>
<td>0.60-0.90</td>
<td>0.015</td>
</tr>
<tr>
<td></td>
<td>6.5</td>
<td>920</td>
<td>4.0</td>
<td>Grade II Springs, Tyre Bead</td>
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<tr>
<td>HC 6/65</td>
<td>5.5</td>
<td>0.61-0.65</td>
<td>0.60-0.90</td>
<td>0.015</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>940</td>
<td>4.0</td>
<td>Shutter Wire</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>940</td>
<td>4.0</td>
<td>Grade III Springs, PC, Strand, Shutter Wire</td>
</tr>
<tr>
<td>HC 66/70</td>
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<td>0.66-0.70</td>
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<tr>
<td></td>
<td>6.5</td>
<td>1000</td>
<td>4.0</td>
<td>Spring Applications in Automobiles and Heavy Machines</td>
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<tr>
<td>HC 68/72</td>
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<td>0.68-0.72</td>
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<td>1040</td>
<td>4.0</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
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<tr>
<td></td>
<td>7</td>
<td>1040</td>
<td>4.0</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
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<tr>
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<td>4.0</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
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<tr>
<td>HC 7/75</td>
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<td>0.71-0.75</td>
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<td>4.0</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
</tr>
<tr>
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<td>1040</td>
<td>4.0</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
</tr>
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<td>HC 76/80</td>
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<tr>
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<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
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<tr>
<td>HC 78/82</td>
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<td></td>
<td>6.5</td>
<td>1140</td>
<td>3.8</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
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<td>7</td>
<td>1130</td>
<td>3.8</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1120</td>
<td>3.8</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>1100</td>
<td>3.8</td>
<td>Grade II Springs, Card Pins, Card Cloth Wire</td>
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<tr>
<td>HC 8/85</td>
<td>5.5</td>
<td>0.81-0.85</td>
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</tr>
<tr>
<td></td>
<td>6.5</td>
<td>1140</td>
<td>3.5</td>
<td>Grade III Springs, PC, Strand, Shutter Wire</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1130</td>
<td>3.5</td>
<td>Grade III Springs, PC, Strand, Shutter Wire</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1120</td>
<td>3.3</td>
<td>Grade III Springs, PC, Strand, Shutter Wire</td>
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<tr>
<td></td>
<td>9</td>
<td>1100</td>
<td>3.3</td>
<td>Grade III Springs, PC, Strand, Shutter Wire</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>1080</td>
<td>3.3</td>
<td>Grade III Springs, PC, Strand, Shutter Wire</td>
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<tr>
<td>JIS-SWRH62A</td>
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<td>0.61-0.65</td>
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<td>870</td>
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<td>Grade II Springs for Machine Tools, Hydraulic Machines</td>
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<tr>
<td>JIS-SWRH62B</td>
<td>5.5</td>
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</tr>
<tr>
<td></td>
<td>6.5</td>
<td>930</td>
<td>4.0</td>
<td>Grade II Springs for Machine Tools, Hydraulic Machines</td>
</tr>
</tbody>
</table>
## WELDING ELECTRODE WIRE ROD GRADES

<table>
<thead>
<tr>
<th>GRADE</th>
<th>SIZE (mm)</th>
<th>CHEMICAL COMPOSITION</th>
<th>MECHANICAL PROPERTIES</th>
<th>END APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSER70S-6</td>
<td>5.5</td>
<td>0.16-0.15</td>
<td>1.60-1.85</td>
<td>0.025</td>
</tr>
<tr>
<td>IS287YEWNR</td>
<td>5.5</td>
<td>0.10</td>
<td>0.38-0.62</td>
<td>0.025</td>
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</tbody>
</table>

## JSW NEOSTEEL TMT WIRE ROD GRADES

<table>
<thead>
<tr>
<th>JSW STANDARD</th>
<th>BIS SPECIFICATION</th>
<th>SIZE (mm)</th>
<th>CHEMICAL COMPOSITION</th>
<th>MECHANICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSW NEO Steel Fe 550 D</td>
<td>IS 1786 Fe 550 D</td>
<td>6.0 - 12.0</td>
<td>% C (max.)</td>
<td>% S (max.)</td>
</tr>
<tr>
<td>JSW NEO Steel Fe 590 S</td>
<td>IS 1786 Fe 590 S</td>
<td>6.0 - 12.0</td>
<td>0.25</td>
<td>0.04</td>
</tr>
<tr>
<td>JSW NEO Steel Fe 650</td>
<td>IS 1786 Fe 650</td>
<td>6.0 - 12.0</td>
<td>0.25</td>
<td>0.04</td>
</tr>
<tr>
<td>JSW NEO Steel Fe 690</td>
<td>IS 1786 Fe 690</td>
<td>6.0 - 12.0</td>
<td>0.30</td>
<td>0.04</td>
</tr>
<tr>
<td>JSW NEO Steel Fe 550 D CRS</td>
<td>IS 1786 Fe 550 D CRS</td>
<td>6.0 - 12.0</td>
<td>0.15</td>
<td>0.04</td>
</tr>
<tr>
<td>JSW NEO Steel Fe 590 D CRS</td>
<td>IS 1786 Fe 590 D CRS</td>
<td>6.0 - 12.0</td>
<td>0.15</td>
<td>0.04</td>
</tr>
<tr>
<td>JSW NEO Steel Fe 650 D CRS</td>
<td>IS 1786 Fe 650 D CRS</td>
<td>6.0 - 12.0</td>
<td>0.15</td>
<td>0.04</td>
</tr>
</tbody>
</table>

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- **C.E.** indicates the Carbon Equivalent.
- **Y.S.** is Yield Strength.
- **T.S.** is Tensile Strength.
- **T.S./Y.S.** is Tensile Strength to Yield Strength ratio.
- **% EL** is Percent Elongation in 200 mm.
TESTING FACILITIES

- Cold Upset Testing Machine
- Universal Testing Machine (UTM)
- Bend/Rebend Test Machine
- Eddy Current Sorter
- Bench Magnifier
- Mobile Spectro
- Micro Ohm Meter
- Stereo Microscope
- Rockwell Hardness Tester
- Metalurgical Microscope

THE ULTIMATE TEST

Wire Rods Coils are used in a variety of applications

- Automobile - Hot & Cold Forming
- Infrastructure viz Power, Roads
- Dams, Bridges, Ports, Refineries
- Railways
- General Engineering
- Machine & Equipment Building
SALES OFFICES

AHMEDABAD
410, Abhishek Complex, Near Keshavbag Party Plot, Manasi Cross Road, Satellite, Ahmedabad - 388 015
Tel.: 079-40229588, 40229310, 40229509

BENGALURU
The Estate,
3rd Floor, West Wing, 121,
Dickenson Road, Bengaluru - 560 042
Tel.: 080-42269888

CHENNAI
Fagun Mansion, 5th Floor,
New No 74, Old No 36, Ethiraj Salai, Egmore,
Chennai - 600 008
Tel.: 044-28997428, 28297422

COIMBATORE
T. V. Swamy Road (West), Coimbatore - 641 002
Tel.: 0422-2541870

DELHI
Thapar House, Janpath, New Delhi - 110 001
Tel.: 011-46000000

FARIDABAD
Plot No. 161, Sector 24, Faridabad - 121 004, Haryana
Tel.: 0129-2239248, 2239247

NOIDA
1A, Industrial Area, Buland Shar Road,
Ghaziabad - 201 009
Tel.: 0120-2348254, 2348252

GUWAHATI
106, 3rd Floor, Meer Market, Masjid Lane, Kamarpatty,
Guwahati - 781 001
Tel.: 0361-2270004

HYDERABAD
7th Floor, Surya Towers, 105, Sandar Patel Road,
Secunderabad - 500 003
Tel.: 040-27555656

INDORE
3rd Floor, Lakshya Badaga, 13th,
New Palasia, Near Curewell Hospital, Indore - 452 001
Tel.: 0731-2532156/535889, 4043913

JAIPUR
Ewrsline Tower, F-1, 7th floor,
Amarpal Circle, Vaishali Nagar, Jaipur - 302 021
Tel.: 0141-4022888/288/2863/41

KANPUR
Room No.105, Ratan Esquire, Chunniaganj,
Kapur - 208 001
Tel.: 0512-2271907

KOCHE
Mitsun Enterprise, 30/185 B4, 1st Floor, Ponnurunni Road,
Challakkavattam Junction, Vyttila P.O.,
Kochi - 682 019
Tel.: 0484-4083927/8/94

KOLKATA
Godrej Waterside, 10th floor, Tower - 1, Unit No. 1003,
Block -1DP, Plot - 5, Sector V, Salt Lake City, Kolkata - 700 091
Tel.: 033-40077555
Fax: 033-40082031

LUDHIANA
109, Modelgram, Near Kocher Market, Opp. Malwa School,
Ludhiana - 142 002
Tel.: 0161-6578644, 640916

MUMBAI
Grand Palladium, 6th Floor, 175,
CST Road, Kalina, Santacruz (East),
Mumbai - 400 098
Tel.: 022-66870000

NAGPUR
Pranam Plaza, Palm Road, Civil Lines, Nagpur-440 001
Tel.: 0712-252333

PATNA
1, Lakh Nagar East, Behind Patna Diesel, Kankarbagh,
Patna - 800 008
Tel.: 08020230917

PUNE
2nd Floor, Mahendra Chambers, Mayfair Building A,
Dhole Patil Road, Pune - 411 001
Tel.: 020-6410454/57, 2711427

RUDRAPUR
Plot No. 284, By Pass Road, Village Kishangpur, Kichha,
District Udham Singh Nagar Uttarakand - 263 148
Tel.: 05944-245290