At JSPL, our timeless business philosophy makes us the best suited for the changing world. In our constant growth and innovation, we have always put forth the importance of setting standards. It is through this constant quest to enhance our capabilities, enrich the lives we touch and ensure that we stay true to our principles that we have now emerged as a dynamic company of tomorrow.

We are part of the US$12 billion Jindal Organisation and have business interest in steel production, power generation, mining, petroleum, infrastructure, sponge iron, ferro chrome and heavy machinery. With growth and innovation as our driving philosophy, we are now putting in place, engines for growth, by increasing our manufacturing capabilities and developing an innovative product mix to take the competitiveness to the next level. We are a socially responsible company that values our customers, employees, stakeholders and community at large.

Our goal is to become the most preferred steel manufacturer in the country.

Jindal Steel & Power Limited (JSPL) is part of US$ 12 billion O.P. Jindal Group. After consolidating our position of a leading player in Steel, Power, Mining, Oil & Gas and Infrastructure Sectors in India, we have expanded our business to several other parts of the world, particularly in Asia (Indonesia, Nepal, Mongolia), Africa, South America and Georgia. JSPL is set to vault itself even higher on the domestic and global stage through diversified investment strategies, gaining a foothold in high growth market and continuously pursuing opportunities to expand in its core areas.

Steel Production: By upgrading its existing plant at Raigarh and commissioning new ones, JSPL will enhance its production capacity to 34 million tons in next 10 years.

JSPL is operating state-of-the-art 3 million ton capacity steel plant at Raigarh, Chhattisgarh, which is to be expanded to 10 MTPA. Equipped with modern machinery, the plant boasts of world-class production facilities and is regularly supplying steel products adhering to domestic and international specifications. JSPL has Heavy Machinery Division at Raipur in Chhattisgarh. JSPL is setting up 12.5 million ton capacity steel plant in phases at Angul in Orissa. The ‘DRI-BF-EAF’ route with unique feature of using environment-friendly Syn gas will be used for steel making for the first time in the world. Also the capacity will pride itself with Plate Mill to produce 5 meter wide steel plates for the first time in India.

The company is also setting up an 11 million ton capacity steel plant in phases at Patratu & Asanboni in Jharkhand. At Patratu, JSPL has taken over the assets of the closed Bihar Alloys & Steel Limited. Using the available land and adding some more, work is in progress for the establishment of Bar Mill and Wire Rod Mill. These mills are expected to start production by the end of 2009.

Power Generation: By expanding its existing power generation capacity and commissioning new thermal, hydro, solar and wind power projects, JSPL and its affiliate, Jindal Power Ltd. will have an annual power generation capacity of over 15000 MW in next 10 years.

JSPL is operating a 340 MW captive power generation facility at Raigarh, based on waste heat recovery from rotary kilns and coal middlings. The new captive power projects to be set up include 1600MW at Raigarh, 2500MW at Orissa and 2600 MW at Jharkhand.

Jindal Power Limited has set up the 1000 MW O. P. Jindal Super Thermal Power Plant at Tamnar, Raigarh. This is the first Mega Power Project in Private Sector. The Company is adding 4 more units of 600 MW each at Tamnar with an investment of Rs. 11,340 Crore and a 2640 MW (4 X 660 MW) power project in the State of Jharkhand at an investment of Rs. 11,880 Crore.

Jindal Petroleum Limited: To increase shareholders’ value, JSPL has recently diversified into oil and gas sector and formed a new company – Jindal Petroleum Limited – to manage this business. The company has acquired 12 oil & gas blocks in different parts of the world, including 4 in Bolivia, 4 in Georgia, 3 in Peru and 1 in India.

Global Reach

JSPL has acquired the development rights for 20 billion tonnes of El Mutun Iron Ore Reserves in Bolivia, South America. Jindal Steel Bolivia plans to invest US$ 2.1 billion in the next few years for mining and setting up of an integrated 1.7 MT steel plant, 6 MT sponge iron plant, 10 MT iron ore pellet plant and 450 MW power plant. This is the largest investment by an Indian company in Latin America and also the largest foreign investment in a single project in Bolivia, so far. This huge investment is expected to generate large-scale employment in the country.

The company is engaged in exploration of diamonds in Democratic Republic of Congo. JSPL is also exploring steel production & mining projects in some other parts of the world such as Mozambique, South Africa, Mongolia, Brazil and Indonesia.

All these expansions are a testament to the fact that at JSPL, we are working towards a bright future.
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Direct Reduced Iron Process
JSPL has the world’s largest coal based sponge iron manufacturing facility, which uses indigenously developed rotary kilns (6 Kilns of 300 TPD and 4 Kilns of 500 TPD). Being the only sponge iron manufacturer with its own captive raw material resources and power generation, we lead the Indian market in coal-based sponge iron sector with a manufacturing capacity of 1.37 MTPA with a metallic iron content of more than 81 percent.

Blast Furnace
JSPL operates a high-productivity Blast Furnace of 1681 CuM volume with a capacity of 1.25 MTPA of hot metal. We also have a Mini Blast Furnace with a volume of 351 CuM producing 0.25 MTPA of hot metal.

Coke Oven & Sinter Plant
The blast furnace is supported by a 2.3 MTPA capacity Sinter Plant and 0.8 MTPA coke oven.
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Electric Arc Furnace
Our 2 x 100 Tonne UHP-EBT Electric Arc Furnaces with supersonic lance and carbjet facilities have eccentric bottom tapping feature which ensures slag free tapping of steel.

Ladle Refining Furnace
Our 3x100 Tonne capacity LRF facility is used to carry out the steel refining operations including desulphurisation. Owing to no use of outside scrap (only plant return scrap) and usage of metallics based on ore from our own mines, a very low level of inclusion is achieved. As a result, our furnaces are capable of making a wide ranging grades of alloy steel as per customers’ requirements.

Vacuum Tank Degassing
Capable of producing a vacuum level of less than 1 mbar for effective degassing of steel, the VTD can achieve very low hydrogen and oxygen levels as per customer’s requirements.

R H Degasser
An R H Degasser has also commissioned recently to produce steel for rails & for plates for very high end applications requiring very low inclusion levels.

Continuous Casting
JSPL’s Continuous Casting facilities include:
- A 3-strand beam blank-cum-bloom-cum-round caster facility (only one of its kind in the country).
- A 6-strand billet-cum-round caster.
- A single strand slab caster with a maximum casting width of 2600 mm.
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Rail & Universal Beam Mill
- 1.25 MTPA rolling capacity.
- Mill upgraded with a Universal Tandem Mill, latest technology in rolling of Structural sections and Rails.
- World’s longest Rail production facility to produce 120 Meter long rail.
- First in India to produce Large Parallel Flange Beams and Column sections. Beam sections upto 900 mm are in regular production as per BIS/Euronorms.
- Facility to produce 240/480 Meter Flash Butt Welded Rail panels.

Universal Tandem Rolling
- Universal Roughing (UR).
- Edger.
- Universal Finishing (UF).

NDT Centre for Rails
- Laser straightness measurement.
- EDDY current testing.
- Ultrasonic testing.
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Plate Mill Features

- 1 million TPA of production capacity
- Facility to produce: Plate (6 – 150 mm thick, 1500 to 3500 mm wide) and Coils: (6 – 23mm thick, 1500 – 3000 mm wide)
- Equipped with 200 MT / hr capacity walking beam type furnace & high-pressure primary & secondary descaling system.
- 4 Hi reversing mill with Steckle furnace & hydraulic auto gauge control system with X-ray gauge.
- 2 Hi roughly mill with automatic width control facility through vertical edge.
- Accelerated water-cooling system (Laminar Cooling) to control metallurgical parameters with good surface finish & coiling temperature.
- Equipped with plate leveling facility & inspection facilities for control on dimensions, flatness & internal soundness (UT Testing)
- Capable of producing plates in on-line normalised condition or temperature controlled rolled (TMCP) condition.
- Also equipped with off-line normalising furnace.

Quality Assurance

- Computerized Tensile Testing machine.
- Digitalized Hardness Tester.
- EN & ASTM Impact Testing machines.
- 100T Bending cum Folding machine.
- High Magnification Metallurgical Microscope with Image Analyzer.
- A Direct Reading Optical Emission Spectrometer with gas analytical channel.
- Offline Ultrasonic Testing machine.
- Drop Weight Tear Test (DWTT) machine.
- Chemical lab equipped with Muffle Furnace for R&D study.
- Fully equipped sample preparation workshop.
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Quality Control and R&D

Raw Material
- X-Ray Fluorescence Spectrometers.
- Satmagan.
- Chromatograph.
- RI - RDI testing Instrument.
- CSR - CRI testing.
- Tumbler Testing.
- Shatter Testing.
- Sieve Analysis.
- Crushers and grinders.
- Well equipped chemical laboratories.

Steel (In-Process & Semis)
- Optical Emission Spectrometers.
- C-S Analyzer (Leco).
- O-N Analyzer (Leco).
- Hydrogen Analyzer (Leco).
- Hydis.
- Macro etching.
- Sulphur Printing.
- Ultrasonic Testing.
- Simulated Properties testing like Tensile properties, Jominy End Quench Testing, Grain Size etc.

Finished Products
- Universal Testing Machine.
- Bending and Folding Machine.
- Residual Stress Measurement.
- On line and off-line Ultrasonic Testing.
- Metallograph with image analyzing system.
- Eddy Current testing.
- Miniprof profile measuring instrument.
- Well equipped sample preparation facilities.
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- Miniprof profile measuring instrument.
- Well equipped sample preparation facilities.
Products

[Hot Rolled Sections and Rails]
- Medium & Large size Parallel Flange Beams
- Parallel Flange Columns
- Channels
- Crane Rails
- Track Rails
- Cathode Bar

Fabricated Beams
- Fabricated Beams/Columns in size range - 350 mm to 2000 mm.
- Beams are fabricated in custom-made sizes using submerged-arc-welding process, duly straightened and end-faced. Beams can also be delivered in shot-blasted condition.
- Distinct quality advantages over on-site fabricated beams.

Hot Rolled Plates and Coils
- Billets/Blooms
- Beam Blanks
- Rounds
- Slabs

Continuous Cast Products
- Billets/Blooms
- Beam Blanks
- Rounds
- Slabs

Metallics & Ferro Alloys
- Sponge Iron Lumps & Fines
- Pig Iron
- High Carbon Ferro Chrome

[Product Range]

(1) SEMIS

<table>
<thead>
<tr>
<th>Product Range</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billets/Blooms</td>
<td>130 x 130 mm, 150 x 150mm, 200 x 200mm, 250x250mm, 280 x 320mm, 285 x 390mm</td>
</tr>
<tr>
<td>Beam Blanks</td>
<td>480x420x120mm, 355x288x90mm</td>
</tr>
<tr>
<td>Rounds (mm)</td>
<td>140 Ø, 162 Ø, 200 Ø, 220 Ø, 305 Ø, 355 Ø for Seamless pipe industry</td>
</tr>
<tr>
<td>Slabs</td>
<td>Width 1500 to 2600 mm, Thickness 215, 250, 280mm</td>
</tr>
</tbody>
</table>

(2) STRUCTURAL SECTIONS*

<table>
<thead>
<tr>
<th>BEAMS</th>
<th>DEPTH (mm) x FLANGE WIDTH (mm) x SECTIONAL WT (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UB 203 x 133 x 25/30</td>
</tr>
<tr>
<td>2</td>
<td>UB 254 x 146 x 31/37/43</td>
</tr>
<tr>
<td>3</td>
<td>UB 305 x 165 x 40/46/54</td>
</tr>
<tr>
<td>4</td>
<td>WBP / IPE 320 x 97 / 127 / 245</td>
</tr>
<tr>
<td>5</td>
<td>UB 356 x 171 x 49/51/53/67</td>
</tr>
<tr>
<td>6</td>
<td>NPB / IPE 360 x 50/2 / 57/1 / 66</td>
</tr>
<tr>
<td>7</td>
<td>NPB / IPE 400 x 180 x 57.4/66/375.7</td>
</tr>
<tr>
<td>8</td>
<td>UB 406 x 178 x 54/60/67 / 74</td>
</tr>
<tr>
<td>9</td>
<td>NPB / IPE 450 x 190 x 67/77/6/92.4</td>
</tr>
<tr>
<td>10</td>
<td>UB 457 x 191 x 67/74/8 / 89/98</td>
</tr>
<tr>
<td>11</td>
<td>NPB / IPE 500 x 200 x 79.4/90.7/107.3</td>
</tr>
<tr>
<td>12</td>
<td>UB 533 x 210 x 82/92/101/109/122</td>
</tr>
<tr>
<td>13</td>
<td>NPB / IPE 600 x 220 x 107/122/4/154.5</td>
</tr>
<tr>
<td>14</td>
<td>WBP / IPE 600 x 300 x 128.8/177.8/211.5/285.5</td>
</tr>
<tr>
<td>15</td>
<td>UB 610 x 229 x 101/113/125/140</td>
</tr>
<tr>
<td>16</td>
<td>WBP / IPE 700 x 300 x 149.9/204.5/240.5/300.7</td>
</tr>
<tr>
<td>17</td>
<td>WBP / IPE 800 x 300 x 172/224/262/317</td>
</tr>
<tr>
<td>18</td>
<td>WBP / IPE 900 x 30 x 198 / 252 / 291 / 333</td>
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<table>
<thead>
<tr>
<th>COLUMNS</th>
<th>DEPTH (mm) x FLANGE WIDTH (mm) x SECTIONAL WT (kg/m)</th>
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<tr>
<td>1</td>
<td>UC 152 x 152 x 23/30/37</td>
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<td>2</td>
<td>UC 203 x 203 x 46/52/60/71/86</td>
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<td>5</td>
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<th>CHANNELS</th>
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<tbody>
<tr>
<td>1</td>
<td>ISMC 250 x 80 x 30.6</td>
</tr>
<tr>
<td>2</td>
<td>ISMC 250 x 82 x 34.2</td>
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<tr>
<td>3</td>
<td>ISMC 250 x 83 x 38.1</td>
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<tr>
<td>4</td>
<td>ISMC 300 x 90 x 36.3</td>
</tr>
<tr>
<td>5</td>
<td>ISMC 300 x 92 x 41.5</td>
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<tr>
<td>6</td>
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<td>7</td>
<td>ISMC 400 x 100 x 50.1</td>
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</table>

(3) RAILS*

<table>
<thead>
<tr>
<th>RAIL</th>
<th>IRS 52, UIC 60, UIC 54</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRANE RAIL</td>
<td>CR 80, CR 100</td>
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</table>

*Please refer Annexure - A for the dimensional details & sectional properties of above products.

(4) PLATES

| THICKNESS RANGE | 6mm to 150mm |
| WIDTH RANGE | 1500mm to 3500mm |
| LENGTH | 3 mtr to 12.5 mtr (as per requirement) |
| STANDARD LENGTHS | 5 mtr, 6.6mtr, 6.8mtr, 7.1 mtr, 8 mtr, 9.3 mtr, 10 mtr, 12.5 mtr |

(5) COILS

| THICKNESS RANGE | 6mm to 23mm |
| WIDTH RANGE | 1500mm to 3000mm |
| COIL WEIGHT | 16-25 MT. |
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</tr>
<tr>
<td>18</td>
<td>WBP / HE 900 x 30 x 198/252/291/333</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COLUMNS</th>
<th>DEPTH (mm) x FLANGE WIDTH (mm) x SECTIONAL WT (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UC 152 x 152 x 23/30/37</td>
</tr>
<tr>
<td>2</td>
<td>UC 203 x 203 x 46/52/60/71/76</td>
</tr>
<tr>
<td>3</td>
<td>UC 254 x 254 x 73/89/107/137/167</td>
</tr>
<tr>
<td>4</td>
<td>UC 305 x 305 x 97/118/137/158/198/240/283</td>
</tr>
<tr>
<td>5</td>
<td>UC 356 X 368 X 129 / 153 / 177/202</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHANNELS</th>
<th>DEPTH (mm) x FLANGE WIDTH (mm) x SECTIONAL WT (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ISMC 250 x 80 x 30.6</td>
</tr>
<tr>
<td>2</td>
<td>ISMC 250 x 82 x 34.2</td>
</tr>
<tr>
<td>3</td>
<td>ISMC 250 x 83 x 38.1</td>
</tr>
<tr>
<td>4</td>
<td>ISMC 300 x 90 x 36.3</td>
</tr>
<tr>
<td>5</td>
<td>ISMC 300 x 92 x 41.5</td>
</tr>
<tr>
<td>6</td>
<td>ISMC 300 x 93 x 46.2</td>
</tr>
<tr>
<td>7</td>
<td>ISMC 400 x 100 x 50.1</td>
</tr>
</tbody>
</table>

(3) RAILS

<table>
<thead>
<tr>
<th>Product Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAIL</td>
</tr>
<tr>
<td>CRANE RAIL</td>
</tr>
</tbody>
</table>

*Please refer Annexure - A for the dimensional details & sectional properties of above products.

(4) PLATES

| THICKNESS RANGE | 6mm to 150mm |
| WIDTH RANGE | 1500mm to 3500mm |
| LENGTH | 3 mtr to 12.5 mtr (as per requirement) |
| STANDARDS LENGTHS | 5 mtr, 6.6mtr, 6.3mtr, 7.1 mtr, 8 mtr, 9.3 mtr, 10 mtr, 12 mtr, 12.5 mtr |

(5) COILS

| THICKNESS RANGE | 6mm to 23mm |
| WIDTH RANGE | 1500mm to 3000mm |
| COIL WEIGHT | 16-25 MT |

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**Products**

- **Hot Rolled Sections and Rails**
  - Medium & Large size Parallel Flange Beams
  - Parallel Flange Columns
  - Channels
  - Crane Rails
  - Track Rails
  - Cathode Bar

- **Fabricated Beams**
  - Fabricated Beams/Columns in size range - 350 mm to 2000 mm.
  - Beams are fabricated in custom-made sizes using submerged-arc-welding process, duly straightened and end-faced. Beams can also be delivered in shot-blasted condition.
  - Distinct quality advantages over on-site fabricated beams.

- **Hot Rolled Plates and Coils**
  - Billets/Blooms
  - Beam Blanks
  - Rounds
  - Slabs

- **Metallics & Ferro Alloys**
  - Sponge Iron Lumps & Fines
  - Pig Iron
  - High Carbon Ferro Chrome
Process Flow: Plate Mill

1. Iron Ore → Sinter Plant
2. Limestone
3. Coke
4. Coke Plant → Blast Furnace
5. Electric Arc Furnace
6. Continuous Slab Caster
7. Slab from Caster
8. Slab receiving, inspection & conditioning → Slab Charging
9. Vertical Edger
10. Primary Descaler
11. Walking beam type reheating furnace
12. Width Gauge
13. Online Thickness Gauge
14. Transfer Bed-1 for cobble removal
15. Up-Color (16 mm max)
16. Coil weighing & Inspection
17. Coil Marking, Strapping & Sampling
18. Coil Shipping
19. Plate
20. Heavy Leveler
21. Divide Shear
22. Plate Shipping
23. Torch Cutting & Sampling
24. Offline Ultrasonic Testing & Inspection
25. Online Ultrasonic Testing
26. Tilting Device for Inspection
27. Transfer Bed 3
28. Rotary Trimming Shear
29. Coil Shearing and Sampling
30. Transfer Bed 4
31. Plate Piler

3-Hi Reversing type Roughing Mill
4-Hi Reversing type Finishing Mill
Process Flow: RUBM

WALKING BEAM REHEATING FURNACE
BREAKDOWN MILL
ROUGHING MILL - 1
UNIVERSAL TANDEM MILL
UNIVERSAL FINISHING MILL
HOT SAWS
COOLING BED
HEAVY BEAM TRANSFER BED
HORIZONTAL STRAIGHTENER (S7)
VERTICAL STRAIGHTENER (S8)
COLLECTION BED (HFT2)
TANDEM COLD SAW LINE
STRUCTURAL INSPECTION AREA
AUTOMATIC PILING BEDS
BINDING & LOADING AREAS
D.N.T. AREAS
TRANSFER BED (B1)
COLD CARBIDE SAWS
SHORT RAIL STORAGE
TRANSFER BED (B2)
GAG PRESS (GP1, GP2)
TRANSFER BED (B3)
RAIL INSPECTION BED (B4)
RAIL INSPECTION BED FOR SHORT RAILS (B5)
STAMPING MACHINE
CHOCK ASSEMBLING AREA

SECTION FINISHING END
RAIL FINISHING END

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[ Corporate Office ]

New Delhi
Jindal Centre, 2 Bihikji Cama Place, New Delhi-110066, INDIA
Tel: +91 11 2618 8340 – 50, Fax: +91 11 2616 1271, E-mail: marketing@jindalsteel.com

[ Marketing & International Sales Division ]

Gurgaon
Plot No. 94, Sector 32, Gurgaon 122001, Haryana
Tel: +91 124 6689000; Fax: +91 124 6689101, E-mail: marketing@jindalsteel.com

[ Branch Office ]

Raigarh
Kharsia Road, Raigarh 496 001, Chattisgarh, INDIA
Tel: +91 7762 227001 – 05; Fax: +91 7762 227022, E-mail: raigarh@jspl.com

Raipur
13, K. M. Stone, G.E. Road, Mandir Hassad, Raipur – 492 101, Chattisgarh, INDIA
Tel: +91 771 2471205 – 07, 30546000; Fax: +91 771 2471214, 3054666; E-mail: jspl_raipur@rpr.jspl.com

Kolkata
Room No. 61 & 63, 6th Floor, Circular Court, 8, AIC Bose Road, Kolkata – 700 017
Tel: 033 3028 3966 / 68 / 69 / 70; Fax: 033 30283967, E-mail: ravi.shanker.jspl@rediffmail.com

Mumbai
101, The Enclave, Behind Marathe Udhyog Bhawan, Opp. Appasaheb, Marathe Marg,
New Prabhadevi Road, Prabhadevi, Mumbai – 400 025
Tel: 022 66241000; Fax: 022 66241020; E-mail: atu@mum.jspl.com

Chennai
2D, Century Plaza, 560-562, Anna Salai, Teynampet, Chennai – 600 018
Tel: 044 4354 6723/24, 4217 9234; Fax: 044 42132334; E-mail: jspl.chennai@airtelmail.in
INNOVATIVE PRODUCTS