Essar Steel India
Odisha - Pellet Plant Commissioned

- Successful commissioning of Phase 1 (6 MMTPA) of 12 MMTPA pellet plant
- Plant designed to use low grade iron ore fines – environment friendly
- Innovative ore transportation mechanism through slurry pipeline
- Playing its part in the nation’s and Odisha’s economic development
Odisha – The Lifeline of Essar Steel

- 12 MMTPA beneficiation plant in Dabuna – within close proximity of major mining sites
- 12 MMTPA pellet facility in Paradip – value addition within the state & nation
- Benefitting the nation and Odisha by using resources within the country – Project planned with ability to use low grade iron ore fines that are unused and not easily consumable
- Keeping environmental impact to a minimum with the use of slurry pipeline
Unique Features of Paradip Pellet Plant

- Fluxed pellet production for use in multiple iron making technologies – Corex, Blast Furnace and Direct Reduced Iron
- Slurry filtration by filter press and air drying of filter cake
- Higher capacity mixer having improved features
- All buildings are independent and have a modular design
Investments in Infrastructure

- Dedicated investments in infrastructure for logistics and power requirements
- 12 MMTPA all weather port at Paradip
- Dedicated power plants fulfilling power needs
Pellet Plants in India

<table>
<thead>
<tr>
<th>Major Pellet Plants in India</th>
<th>Capacity (MMTPA)</th>
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</thead>
<tbody>
<tr>
<td>Essar Steel*</td>
<td>14.0</td>
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<tr>
<td>JSW, Toranagallu</td>
<td>9.2</td>
</tr>
<tr>
<td>JSPL, Odisha</td>
<td>4.5</td>
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<tr>
<td>KIOCL, Mangalore</td>
<td>3.5</td>
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<tr>
<td>Mandovi Pellets, Goa</td>
<td>2.5</td>
</tr>
<tr>
<td>Bharat Mines, Karnataka</td>
<td>1.2</td>
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</tbody>
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Source: Company Research  

Additional 6 MTPA pelletizing capacity under construction

India’s largest Pellet Producer
Hazira: India’s largest single location flat steelmaker

- 10 MMTPA flat steel producer – full basket of products
- Sustainable low cost producer
- Low carbon emitter, negligible wastage & high manpower productivity
Essar is ready to serve India and the World

Strategically located manufacturing & distribution facilities bringing Essar close to raw materials & customer
Essar Steel – poised for accelerated growth

- Odisha Pellet Plant becomes operational
- Hazira facility becomes one of the largest flat steel plants in a single location
- Over Rs. 37,500 Crore invested including expansion
- World class facilities built & operating at low costs – Fully integrated from mining to metals
- Raw material security and flexibility
- Fully aligned with World Steel Association’s sustainability indicators
- Robust supply chain and innovative logistics
- Playing a part to further spur India’s growth story
Growing with the community - CSR Initiatives

Public Infrastructure
- Renovation of community centres
- Completion of reinforced cement concrete village roads
- Installing solar lights in villages

Women and Children
- Empowerment of women through self help groups
- Improvement of immunization and vaccination delivery

Health
- Permanent drinking water supply to each village to be provided
- Provision of sanitation facilities
- 24x7 free health services

Education
- Industrial Training Centre at Telkoi by July 2012
- Renovation of 6 Anganwadi Centres
Every achievement is not an end, but the beginning of a new journey.

let’s begin
### Vizag
- 8.0 MMTPA beneficiation plant at Kirandul
- 267 km slurry pipeline
- Port based 8.0 MMTPA pellet plant

### Paradip
- 12.0 MMTPA beneficiation plant at Dabuna
- 253 km slurry pipeline
- Port based 12.0 MMTPA pellet plant

### Hazira
- 10 MMTPA steelmaking capacity; 3 distinct iron making units (DRI, BF & Corex)
- Port based plant
- **Steel Making Technologies:**
  - 4.6 MMTPA Electric Arc Furnaces (4 units)
  - 5.0 MMTPA CONARC Furnaces (2 units)
- **Product capacities**
  - 7.1 MMTPA of Hot Rolled
  - 1.4 MMTPA of Cold Rolled
  - 0.5 MMTPA of Galvanized
  - 1.5 MMTPA Plate Mill
  - 0.6 MMTPA Pipe Mill

### Pune
- 0.6 MMTPA Cold Rolling, 0.5 MMTPA Galvanizing & 0.4 MMTPA Color Coating facility
- 7 service centres with 4 MMTPA capacity located near steel intensive industrial hubs
- 375 + retail outlets spread throughout India

**Proven State–of–the–Art assets**