Vedanta Limited – Aluminium & Power Business

vedanta
transforming elements

Presentation on
Road Map to Efficient Logistics in Odisha
by Vinod Agrawal
General Manager (Logistics & Shipping)
Vedanta- Jharsuguda, Odisha

Brief Introduction Vedanta Limited- Aluminium & Power : Capacity, Cargo Volume

Vedanta Lanjigarh- Alumina Refinery

Refinery capacity:
1 MTPA

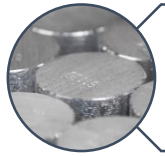
Captive Power plant: 75 MW

Refining – To refine raw Bauxite into Alumina powder

BALCO- Korba

Smelter capacity:
0.57 MTPA

Power plant combined capacity:
2010 MW



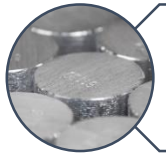
Products: Ingots, Alloy Ingots, Wire Rods, Bus Bars, Rolled Products

Vedanta Aluminium- Jharsuguda

Smelter capacity:
1.75 MTPA

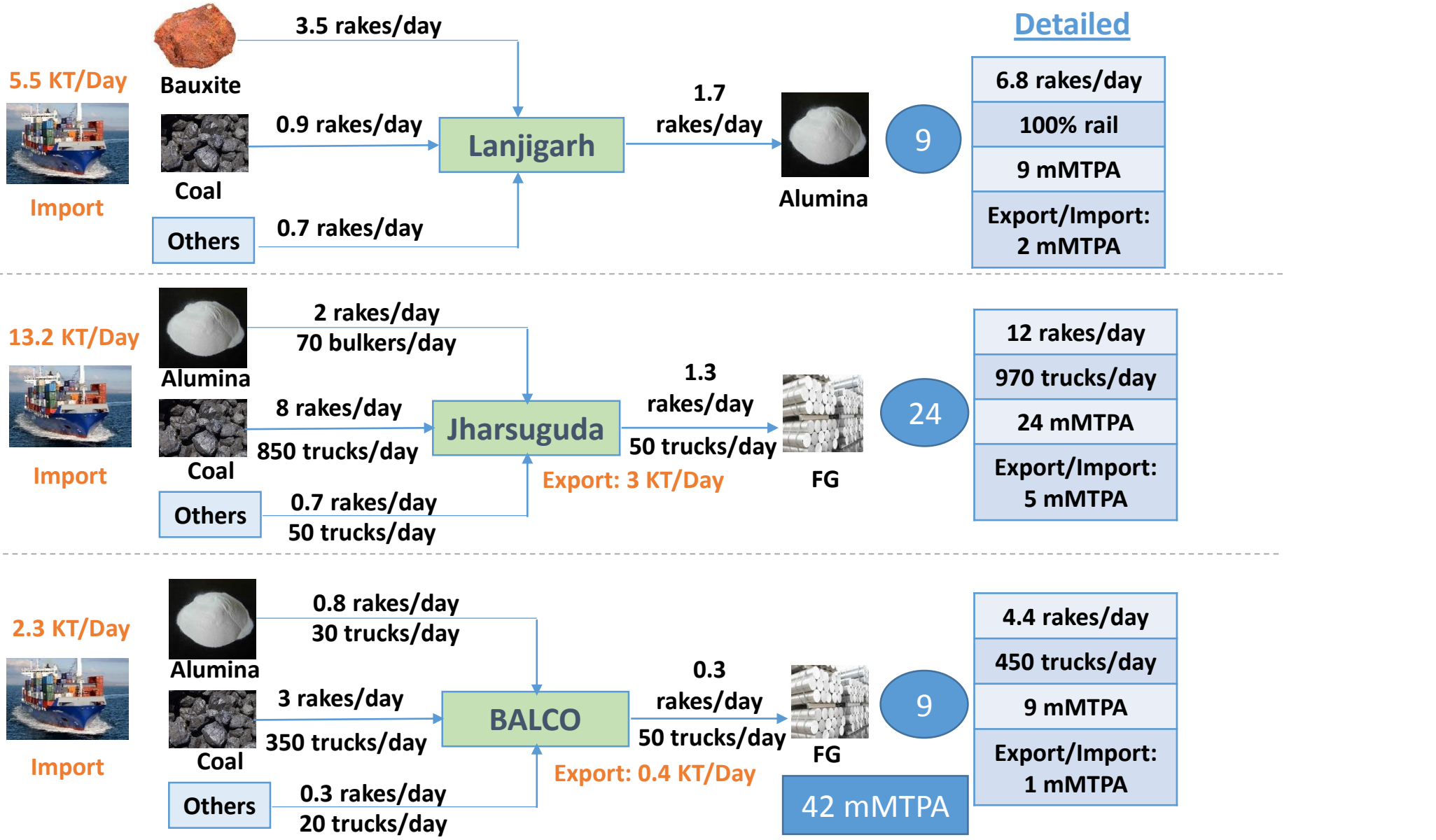
Power plant I: 1215 MW
Power plant II: 2400 MW

Total : 3615 MW



Products: Aluminium Ingots, Alloy Ingots, Wire Rods, Billet, Slabs, PFA

Inward /Outward Traffic



Vedanta Group: Import and Export Container Volume Projection
Group Level

Group Companies	FY: 18-19		FY: 19-20		Full Rated Capacity	
	Import	Export	Import	Export	Import	Export
	TEUs/ PA	TEUs/ PA	TEUs/ PA	TEUs/ PA	TEUs/ PA	TEUs/ PA
HZL	900	9600	900	11500	1000	11600
Balco	0	9600	0	9600		9600
Vedanta	3120	50000	14640	52000	33600	62400
Sterlite	4419	8700		8700		8700
Sub Total	8439	77900	15540	70300	34600	80700
Gross Total	86339		85840		115300	

Current Challenges faced by Shippers:

Transport Network (Rail/Road) enhancement	• Huge Congestion in entire Rail Network of Odisha • High Transit time 5 to 6days for a distance of 500 km • Lack of rail Schedules & Rail/Road blocks in Odisha • Issue of last mile connectivity
Terminal (Port) capacity enhancement	• No container Port in Odisha • Lack of warehouse infrastructure • High cost of container repositioning
Coordinated Master planning	• Road restrictions in cities • Location of rail terminal inside City
Improvement of Operating Environment	• No grievance redressal at port • Inefficiency due to labour and transport unions • Overloading of trucks
Ancillary capacity enhancement	• Lack of financial services in ICD area • Weighbridges unavailable • Shortage/ Unavailability of E-Seals
Unified process/ regulation	• High cost of setting up terminal • Customs process not properly executed • Processes not well defined for special cargo • High charges/rigid slabs of rail freight
Digitization	• Real Time track and trace not available • RFID only in western corridor Problems with IT interface with customs

Road Map for Efficient Logistics In Odisha

Regulatory

- Strengthening Single Window Policy Approval for fast track clearance of the pending/upcoming projects
- Allocation of Required Capitals for key projects in Port Related/ Rail/ Road/Waterways networks in so far highly neglected logistics sector
- Make in Odisha Campaign : Resolving raw material issues of industries already set up in Odisha
- Incentives for Logistics Sector
- Needs to promote upstream & downstream industires for end to end supply chain

Rail Network

- Sambalpur- Angul-Paradip Rail Route Doubling & Electrification
- Dedicated Freight Corridor- Rail
- Feasibility/ Operation of Double Decker Container Train
- Lot of railway expansion/ debottlenecking projects sanctioned & but not getting progressed
- Shortage of railway wagons (rolling stock) /route congestion affecting all commodities
- Sambalpur to Titlagarh doubling work in progress
- Expedite Titlagarh to Raipur doubling (work in progress)
- Expedite Sambalpur – Angul doubling (work in progress)
- Cuttack – Bhadrak 3rd line sanctioned, but no progress so far, needs to expedite

Road Map for Efficient Logistics In Odisha

Port

- Paradip PICT & Dhamra container ships service starting
- Gopalpur: All weather Port development
- New Port : Subarnarekha : Tata Group (Port – North of Dhamra) : Foundation stone layed on Feb19
- Navjivan Group Port proposal near Konark- status
- Encourage PPP model for new ports

Inland Waterways

Fast Track Development of 5 National Waterways of Odisha

- 1. **National Waterway – 5** : Talcher-Dhamra stretch of Brahmani-Kharsua-Tantighai-Pandua Nala-Dudhei Nala-Kani Dhamra river system, Geonkhali-Charbatia (588 km)
- **National Waterway – 14** : Baitarni River - Dattapur village to confluence with Dhamra river.
- **National Waterway – 22** : Birupa-Badi Genguti-Brahmani river system- Birupa Barrage at Choudwar to confluence of Birupa and Brahmani rivers
- **National Waterway – 23**: Budha Balanga River - Barrage at Patalipura to confluence of Budha Balanga river with Bay of Bengal at Chandipur Fishing Port.
- **National Waterway- 64**: Mahanadi River : Sambalpur barrage to Paradip.
- **National Waterway-96**: Subarnrekha River - Chandil Dam to confluence with Bay of Bengal.

Road Map for Efficient Logistics In Odisha

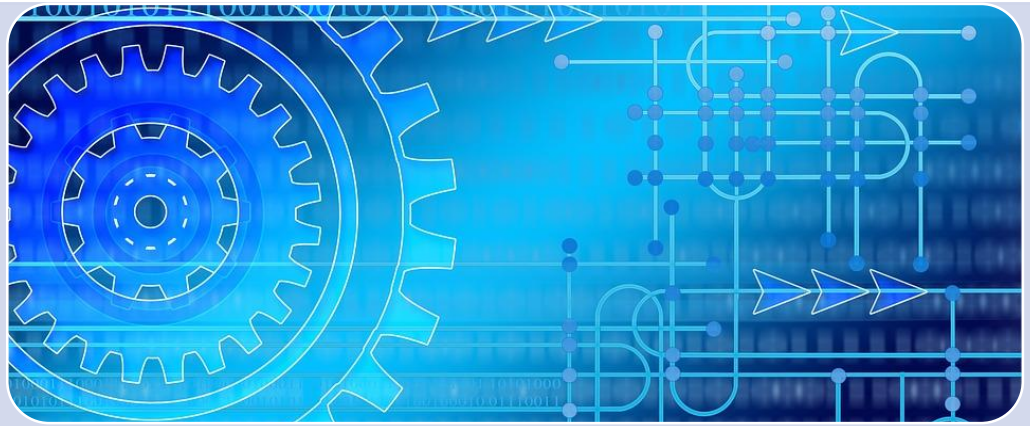
Road Network

- Expedite Widening of National Highways (6 lane)
- Development of Coastal Route- Dhamra - Paradip- Gopalnagar-
- Construction of direct Road between Pradip to Bhubaneswar
- Other state trucks are levied unnecessary Octroi/toll etc
- Carterlisation of Transporters/Unions leading to inflated freight rate
- Lack of healthy competition for better freight/better service Eg Jajpur/Barbil – Iron Ore road freight
- Shortage of Refrigerated Trucks/ Vehicles

Shipping Lines (Container)

- Early start of container ships from Paradip (PICT & Dhamra)
- Empty containers positioning through coastal route
- Development of CFS/ICD in Jharsuguda, Sambalpur, Angul & offering empty containers from there
- Induction of New Container rakes
- Induction of New Containers as current inventory is very old & fitness is not upto the mark

Road Map for Efficient Logistics In Odisha



Innovation

- ROLL ON ROLL OFF OVER RAIL/SHIPS (e.g. Konkan Railway RORO)
- PM Mr Modi's dream RORO project: Ferry in Gujarat (Dahej to Gogha in Gujarat)
- Double diamond (2 rakes clubbed together) & Python rakes (3 rakes clubbed together) already started by Sambalpur Divn Railway which is grand success

Digitization

- Introduction of logistics control tower for efficient & robust system
- Introduction of Block chain to get visibility end to end . A step towards green supply chain
- Using Artificial Intelligence for complete logistics triangulation and end to end tracking
- GPS tracking of trucks, rakes, containers

THANK YOU!