



## **EXECUTIVE SUMMARY**

JSW Utkal Steel Ltd. (JUSL), a wholly owned subsidiary of JSW Steel Ltd., intends to set up 13.2 MTPA Integrated Steel Plant (ISP) with captive jetty in Jagatsinghpur district and 30.0 MTPA Iron Ore Grinding & Desliming Plant in Keonjhar district, Odisha with an objective to expand its operation in Odisha.

Odisha, with its significant iron ore reserve and long coastline offers an ideal location for setting up a steel plant. Geographic proximity to potential coal mines in Jharkhand provides additional logistics advantage for steel manufacturing. The iron ore belt of Odisha is well connected by highways, which provides suitable infrastructure to transport the iron slurry through slurry pipeline, considered to be the most environment friendly and economic mode of conveying iron ore.

JUSL has proposed to set up a Greenfield ISP to produce 13.2 MTPA crude steel along with captive power plant (CPP) of 900 MW capacity and cement grinding & mixing unit of 10.0 MTPA in Jagatsinghpur district, near Paradeep in Odisha. JUSL also intends to set up 30.0 MTPA iron ore grinding & desliming plant near Joda in Keonjhar district of Odisha and iron ore slurry pipeline of approximate length of 312 km from Joda to the ISP site near Paradeep to transport the iron ore slurry. This slurry would be dewatered in the steel plant for production of pellet. The pellet thus produced would be used as burden in the blast furnaces of the proposed steel plant as well as transferred to other units of JSW Steel Ltd. across India.

The ISP would be served by a Captive jetty of handling capacity of 52.0 MTPA, to be located adjacent to the steel plant near the



**JSW UTKAL STEEL LIMITED**  
**13.2 MTPA Integrated Steel Plant with Captive Jetty**  
**and 30 MTPA Iron Ore Grinding & Desliming**  
**Pre-Feasibility Report**



0 Executive Summary (cont'd)

mouth of Jatadharmohan River Creek. The captive jetty would cater to the import and export requirements of the ISP helping it reduce the infrastructure cost for the production of steel.

High Level Clearance Authority (HLCA), Government of Odisha (GoO) has in-principle approved JUSL's proposal in its meeting dated 02.06.2017 held under Chairmanship of Hon'ble Chief Minister for setting up the of ISP Greenfield Project with an investment of about Rs. 65,000 crore. The approval for establishment of the Captive Jetty is awaited.

The following section presents a brief outline of the of the proposed project.

Project Profile	Crude Steel	..	13.20 MTPA
	Pellet Plant	..	32.00 MTPA
	Cement (Grinding & Mixing)	..	10.00 MTPA
	Captive power	..	900 MW
Products for Sale	Pellet	..	14.81 MTPA
	DRI	..	0.38 MTPA
	Hot Rolled Coils	..	3.63 MTPA
	Plates	..	1.18 MTPA
	Cold rolled products (Cold rolled annealed & galvanized coil, colour coated coil)	..	3.98 MTPA
	Tinplate	..	0.45 MTPA
	Silicon Steel	..	0.50 MTPA
	Long Products (Rebar, Wire Rod, Medium sections)	..	2.80 MTPA
Location	Within Ersama Tehsil, near Paradeep of Jagatsinghpur District, Odisha.		
Major Facilities with Production capacity	Slurry dewatering system		30.0 MTPA
	Coke oven		6.0 MTPA
	Sinter plant		6.0 MTPA
	Pellet plant		32.0 MTPA
	DRI		1.2 MTPA
	Blast furnace		13.5 MTPA
	Steelmaking Shop (SMS)		13.49 MTPA
	Caster Shop		13.2 MTPA
	Flat Products		9.74 MTPA
	Long Products		2.8 MTPA
	Calcining Plant		1.1 MTPA
	Cement Plant		10.0 MTPA
Captive Power Plant		900 MW	



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	Air Separation Plant	12,600 TPD
	Tar processing plant	300,000 TPA
	Benzol Refining Plant	100,000 TPA
Major Raw Materials	Coking coal, Iron ore (lump, concentrate & fines), PCI coal, Limestone, Dolomite, Clinker, Steam coal	
Water consumption	9,200 m <sup>3</sup> /hr (48.58 MGD)	
Water Source	Jobra barrage of Mahanadi river	
Power source & requirement	Annual energy consumption - 10,914 X 10 <sup>6</sup> kWh, sourced from captive generating units & State Power Grid	
Land details	2,980 acres (100% Government land)	
Employment generation	Construction phase - Around 12,000-15,000 casual and contract workers Operation phase - Approximately 12,000 direct employment	
Implementation Schedule	84 months from 'Go-ahead' date	
Capital Cost	Around INR 65,000 crore	

With regard to social infrastructure, the proposed projects would emphasize on development & strengthening of shared physical infrastructure comprising of roads, railway linkages, potable water facilities and cyclone shelters. Additionally focus would lie on strengthening of scholastic education and vocational training.