



## **1 - EXECUTIVE SUMMARY**

This Summary presents a brief outline of the Pre-feasibility report for the proposed plan for expansion of the existing integrated iron and steel making facilities of Tata Steel Kalinganagar (TSK) at Kalinganagar, Distict Jajpur, Odisha.

1. TSK had conceived to produce 6.0 MTPA of crude steel in Kalinganagar Industrial complex, Odisha. Environmental Clearance for this project was accorded by Ministry of Environment Forest and Climate Change (MoEFCC) on 7<sup>th</sup> November 2006. Subsequently, on 10<sup>th</sup> October 2012, based on proposal by TSK, MoEFCC amended the above clearance due to reorientation of layout, changes/addition of units, and value addition by cold rolling of product. Phase-I of the integrated steel plant for producing 3.0 MTPA crude steel is already commissioned.
2. TSK is now planning to expand the plant for a total production of 8.0 MTPA crude steel, through increase in capacity of individual units and optimizing capacities in the existing plant site.
3. The production plan of the proposed expansion is as follows:

Crude Steel	..	8.00 MTPA
Hot Rolled Coils	..	7.00 MTPA
Cold rolled products	..	2.20 MTPA
Long Products ( Bar, Wire Rod, Medium & Light Structurals etc.)	..	2.00 MTPA



---

1 - Executive summary (cont'd)

4. The proposed production of crude steel and subsequent rolling would be accomplished via Blast Furnace (BF)-Basic Oxygen Furnace (BOF)-Caster route, followed by hot and cold rolling to produce flat as well as long products. The production facilities would be adequately supported by necessary auxiliary facilities such as raw materials unloading and storage, proportioning of raw materials, electric power receiving and distribution stations, various utility facilities, water treatment and distribution system, etc.
5. The proposed site for the expansion of the steel plant is located within the Kalinganagar Industrial Complex (KNIC) in Jajpur district of Odisha and is owned by TSK. The plant site is bounded by the Daitari-Paradip expressway, also designated as NH-5A, on the west and NH-215 on the northern side which connects the plant site to J K Road. Kalinganagar Industrial Complex has received status of National Investment & Manufacturing Zone (NIMZ) from Ministry of Commerce & Industry, Department of Industrial Policy & Promotion (DIPP), Government of India under NIMZ Scheme. As per the Clause 18 of NIMZ guidelines, Environment Clearance for industries within NIMZ would be given high priority.
6. The total make-up water requirement for the plant, after the expansion to 8 MTPA crude steel capacity, shall be around 5,500 cu m/hr, i.e. about 29 MGD. The source of water for the existing steel plant is river Kharsua from where raw water is pumped and stored in a raw water storage tank. Water for the proposed plant is considered to be available from existing raw water reservoir on a continuous basis.
7. The estimated power requirements of various plant units including CRM as well as utilities and auxiliary facilities for the project would be about 4,935 Million KWh, which would be sourced from captive generation and Grid Power supply system.



---

1 - Executive summary (cont'd)

8. The total area for steel plant provided by Govt. of Odisha as per the MoU is around 3,472 acre, of which 3,089 acre is available for the steel plant. This area is adequate to accommodate the expansion facilities, including process units, water reservoir, solid waste processing area and 33% greenbelt.
9. The proposed production facilities would generate various pollutants in form of air emission, wastewater discharge, solid waste, etc, which would be managed by adopting state-of-art technologies, installation of control devices and treatment plants and by maximum recycling/reuse of the wastes, wherever applicable.
10. TSK has established benchmark with regard to its social responsibility towards the community and has undertaken extensive range of initiatives in the sphere of (i) livelihood & employability (ii) education (iii) health (iv) local infrastructure development (vi) ethnicity. The augmentation and extension of the above mentioned initiatives would extend to the local people of the study area. The focus is aimed at the local scheduled tribe and schedule caste groups.
11. It is envisaged that the project would be completed in a period of 60 months from receiving Environmental Clearance . It is considered that construction work at site for various plant facilities of the project would commence after completion of major engineering works.
12. The order-of- magnitude capital cost of the plant would be about Rs 21,000 crore. This includes Plant and equipment (as erected) including civil and structural work, Design, engineering and administration during construction and contingency costs.



---

1 - Executive summary (cont'd)

13. It is also expected that the proposed expansion project would augment the existing social developmental activities and further promote - i) Improvement in the socio-economic status of the region by generation of direct and indirect employment opportunities, ii) Development of ancillary small and medium industries, trade & commercial establishments and local entrepreneurship.