



## Vishnu Deo updates on modernization of SAIL and RINL

Recently Mr Vishnu Deo Sai the minister of state for steel and mines informed Parliament that SAIL and RINL have undertaken Modernisation and Expansion to enhance its crude steel production capacity in the current phase from 12.84 million tonne per annum to 21.40 million tonne per annum and from 3.0 million tonne per annum to 6.3 million tonne per annum respectively.

Expansion project at Salem Steel Plant has been completed in September, 2010. At Rourkela Steel Plant, entire new Integrated process route including coke making, sinter making, iron making with country's largest Blast Furnace (4060 cum), Basic Oxygen Furnace, Slab caster and rolling facility in the new Plate Mill has been made operational. At IISCO Steel Plant, major facilities for New Sinter making, coke making, Iron making with country's largest Blast Furnace (4160 cum) and steel making (Two Basic Oxygen Furnace Converters and Two Casters) and Wire Rod Mill have been made operational.

At Bokaro Steel Plant, Rolling facility in the new Cold Rolling Mill complex started with completion of Pickling Line & Tandem Cold Mill.



At Bhilai Steel Plant, Ore Handling Plant Part-A, 2nd Sinter Machine in SP-3 and new Coke Oven Battery have been completed.

At Durgapur Steel Plant, Rebuilding of Coke Oven Battery-2 has been completed. RINL has undertaken modernization of the major process units like Blast Furnaces, Steel Melt Shop Converters and Sinter Plant at an estimated cost of about INR 2410 crore, to meet the latest environmental norms, to adopt the latest technology, to conserve energy, to increase the production and productivity and at the same time to upkeep the health of major equipment, which are in operation for more than two decades.

He said that the implementation of modernization and expansion plan has been affected mainly due to unforeseen soil conditions encountered during execution, under estimation of quantities by the consultant, Logistic problems due to brownfield nature of project, inadequate mobilization of resources by the contracting agencies including PSU contractors. There has been no cost overrun except in ISP expansion (INR 1965 crore) where the cost estimate has been revised to INR 16,408 crore against the earlier cost of INR 14,443 crore, resulting in financial deviation of 13.6%. The main reason for cost overrun at ISP is increase in civil & structural work of BOF, CCP & Rolling Mills packages, proportionate increase in IDC&EDC and provision for future escalations.

He added that various steps like review & updation of Project Manuals, enhancing delegation of powers at various levels for faster decision making, implementation of Integrated Project Management System, strengthening of project management organization by recruiting/ redeploying fresh/experienced project managers, constitution of Board Sub Committee (BSC) to monitor the implementation of Expansion Plans have been taken.

## H&K Launches Country's First "Made-In-India" 4-Strand Slit Thermex® Pipe Assembly

In line with the Honorable Prime Minister's "Make-in-India" initiative, H&K Rolling Mill Engineers Pvt. Ltd. has successfully commissioned its first indigenously manufactured 4-Strand Slit 'Thermex® Quenching and Self-Tempering' Pipe Assembly at Mahalaxmi TMT Pvt. Ltd, Wardha, Maharashtra.

Mr. Franz Tamm, inventor of Thermex®, the world's leading Quenching & Self Tempering technology, congratulated H&K India on the successful transfer of slit-quenching technology from M/s Hennigsdorfer Stahl Engineering GmbH, Germany (HSE Germany) to H&K India, leading to the seamless commissioning of the country's first "Made-in-India" 4-strand slit quenching pipe assembly.

The H&K India team, led by its Chairman, Mr. Raj Kumar Markan, undertook the entire engineering and manufacturing process in India, including equipment design, raw material procurement, machining, assembly, testing, and erection and commissioning in less than 5 months. It only

took rolling of a few billets for successful commissioning of the Thermex® 4-strand slit quenching pipe assembly for rebar size 8mm at Mahalaxmi's bar mill at Wardha.

On testing, the 8mm Thermex® rebars recorded stellar properties such as Grades 550 and 600 with 1.14-1.17 stress ratio and 20-23% elongation.

Mr. Markan commented, "I am delighted that H&K India continues in its aim to introduce relevant modern technologies to the Indian steel industry. We revolutionized the Indian market by introducing the concept of quenching and self-tempering at a time when the standard Indian practice was to use Cold Twisted Deformed bars of grade Fe 415. We introduced stop-start shears, Bundling-Binding Systems, grip tilters etc. in the Indian steel industry when we undertook the modernisation of the Durgapur Steel Plant and Kalyani Steel in 1990s.

The flawless execution of the 4-strand slit Thermex® Quenching Pipe assembly is another testimony of our relentless efforts to upgrade Indian rolling mills with latest



technologies from Europe. On behalf of the entire H&K India team, I extend heartiest congratulations to Mahalaxmi TMT Pvt. Ltd, for producing such superior quality 8mm rebars through the Thermex® 4-strand slit pipe assembly."

Mr. Markan further opined that on reviewing the chemical composition and physical properties of the 8mm rebars, it was observed that they met international standards and were as good as, if not better, than rebars of Indian primary producers. He has advised Mahalaxmi that it should maintain this level of quality rigorously.