

From the desk of the Executive-In-Charge

Dear Stakeholders,

The year FY'11 was eventful for TGS. We entered into the EPC business for the first time, started structural erection business, made investments to upgrade the technology and recruited people at different levels of the organization to strengthen the technical and managerial knowledge base and address the issue of age mix. In spite of the challenges, I am happy to share that TGS posted the highest ever production in FY'11. The Toyota Way which we initiated a couple of years ago has started yielding rich dividends. This year we recorded the highest number of kaizens in the company.



While we can look back at the year bygone with some satisfaction, we enter FY'12 with new challenges and greater expectations from all the stakeholders. The challenge now is to execute these with panache so that we live upto the expectations of our customers.

I am sure, with your support we will be able to meet these challenges.

With best wishes


Rajesh Ranjan Jha

A Tribute to the Founder

TGS joined the Tata Group on the 3rd of March 2011, to salute the Visionary, Jamsetji Nusserwanji Tata who single handedly inspired the industrial revolution in the country. This tribute to J.N. Tata (1839-1904) is a sincere recognition of the exemplary genius that inspired him to dream, explore, and find means of translating a vision into reality. Jamshedpur, the city that has the proud privilege of bearing the name of the Founder of the Tata Group, Jamsetji Nusserwanji Tata, never fails to celebrate this association on his birth anniversary on the 3rd of March, every year. Over the years the citizens of the city and Tata Steel have created a representative style for celebrating the Founder's Day, drawing the entire senior management of the Tata Group to Tata Steel's hometown, Tatanagar. Tata Growth Shop, in its float, displayed its Vision, a hundred years down the line in 2111- a dream of becoming a total solution provider, driven by the most sophisticated technology, catapulting Tata Steel to new horizons of excellence.



Team from Defence Services visits TGS

Consequent to the submission of an "Expression of Interest" by Tata Motors Ltd. to the Ministry of Defence for the development and supply of Futuristic Infantry Combat Vehicles, a team from the defence services visited Tata Motors Ltd. & other companies of the Tata Group to assess capabilities for the execution of such a project. Tata Steel Growth Shop was visited by a 6-member Defence team in January 2011, headed by Brigadier Sanjiv Mehra, along with Mr. AS Puri, Mr. VS Noronha, R.R. Akarte & other executives of Tata Motors. The team visited the shop at TGS and expressed their satisfaction with the manufacturing facilities, particularly the large-sized CNC machine tools for intricate & accurate machining, heavy fabrication facilities and welding capabilities for critical fabrication jobs which could be leveraged for meeting the defence requirements. The visit promises the prospect of a long term business relationship in the defence sector.

Project Blue Fox for Hindalco launched

Hindalco Industries Limited, the metals flagship company of the Aditya Birla Group and a giant in the aluminium industry, for the first time, placed an order on TGS, for Hot Rolling Mill equipment, for their Greenfield project (Project Blue Fox) at Hirakud, Orissa. Hindalco's Greenfield project at Hirakud is the first of its kind in India, which will manufacture aluminum sheets of 0.3mm thickness. Valued at Rs 7.34 crore the order provides TGS with a good opportunity to demonstrate its capability in the Aluminium Industry. The Aluminum industry today, is a large market in terms of equipment & services required and this project provides TGS with a golden opportunity to capitalize on the Aluminum industry requirements. Launched on 24th March 2011, the project is scheduled to be completed within 28 weeks.



LCP Erection

Leveraging on its core strength, TGS bagged an order for the Lime Calcining Plant with unique PFR (Parallel Flow Regenerative) suspended cylinder technology developed by Maerz. This is the first time, suspended cylinder type PFR lime kilns with 600 tpd capacities are being installed in India. The ground breaking was done by Mr. H.M. Nerurkar, MD – Tata Steel.

So far, over 8000M³ of concreting has been completed in the lime Kiln area. The kiln foundations for both the Kilns 8 & 9 are complete while the blower house and load center substation building structures are ready for equipment erection. The mechanical erection till the 5th shell of Kiln 8 has been completed and handed over for refractory work. The erection of the suspended cylinder - the most critical of all the erection activities was done for the first time in Tata Steel in the presence of technical experts of Maerz, who were completely satisfied with the erection procedure. Another critical erection in terms of time frame and height is the kiln top for which the Critical Chain Project Management (CCPM) system has been established. It is planned to reduce the erection time by 25%.



1st Mechanical Lift



Boom-placer for the Kiln 9 foundation casting

World class jobs for Andritz Hydro

TGS manufactured critical Rotor Spider parts in its machine shop, for M/s Andritz Hydro Pvt. Ltd. The main part of the rotor spider had a diameter of 6250 mm, and weighed about 33.5 tons. The job accuracy required in terms of run-out (face and bore) had to be within 0.02mm. The other major parts were the Lower Bracket with a diameter of 3355 mm & weight of 16.2 tons and the Upper Bracket with 10 arms, having a diameter of 4795 mm and weighing 16.2 tons. The accuracy achieved in the complete job was 0.10. All the dimensional and geometrical tolerances were achieved as per customer specifications. This was a unique assignment executed with perfection by the TGS team.

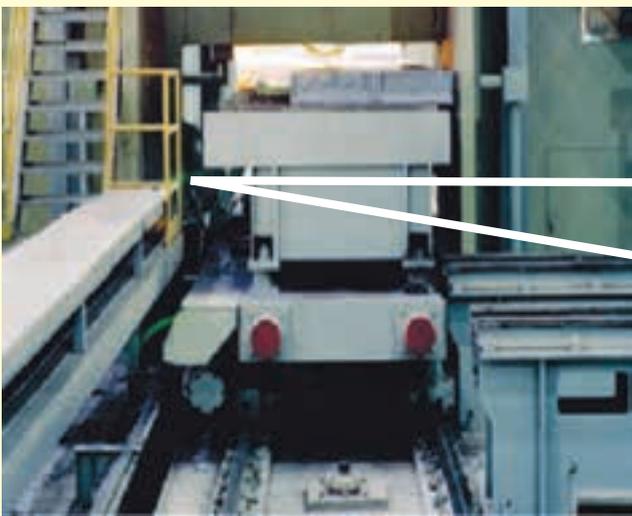


Design of Slab grinding machine

TGS designed the "Slab Grinding Machine" for the LD#2 & Slab Caster of Tata Steel. This is the first time such a slab grinding machine has been designed in India for conditioning of slabs.

Slabs coming out from the caster have a thin layer of oxides and other impurities which may extend into the slab to a considerable depth along with other defects such as cracks and hence these must be removed from slabs before rolling into finished products. While, conventionally, this is done using the Scarfing method, Slab Grinding yields better results in terms of superior surface quality, higher productivity, minimal material loss and low investment cost. In addition, the process is safe and environmental friendly.

The slab grinding machine has a high precision control system for grinding-pressure control in relation with the grinding car speed, which ensures constant depth of cut irrespective of slab curvature. Some other features of the machine include grinding car motion control, speed regulation of the grinding wheel for maintaining constant peripheral speed as the wheel wears out, transverse feed at end of each reversal, grinding wheel angle etc. Various safety features are also incorporated into control system. The machine has a capacity of grinding 60 slabs per day with one grinding head.



ASPIRE: Recognition Function

The Champion Level ASPIRE Recognition Function was organized recently to recognize the teams successfully completing the improvement projects and the individuals contributing to Knowledge Management. ASPIRE is Tata Steel's brand for company-wide improvement initiatives. Mr. Rajesh Ranjan Jha, EIC TGS and the Chief Guest for the occasion, presented the awards at a function which was attended by the senior executives and other officers of TGS.

While commending the efforts of the various teams, Mr. Jha mentioned that TGS had a bright future with the growth opportunities coming up in the country and to meet the challenges ahead it was extremely important to sustain the culture of Innovation. He re-iterated that the Toyota Way being practised in TGS would be a major enabler in providing the competitive edge and positioning TGS as a world class manufacturer.



TGS *People & Relationships*

Jagriti: The Evolution

The story so far...

The formal land-breaking ceremony by Mrs. Daisy Irani on 5th Feb 1995 led the way for a new building which was Jagriti's operating centre and, a nursery school was started by Jagriti.

Now.....

Jagriti manages a full-fledged nursery school at the Tata Steel Adityapur Complex colony which started with just a few children and one teacher. At present there are 97 children and 3 teachers in the School. The school functions with an aim of providing quality education to the children from Gamharia & villages around it at a very nominal fee structure.

