



From the Desk of EIC

Dear Friends,

It is my honour to be part of Tata Steel Growth Shop which over the last six decades has established itself as a frontline engineering company in the country with many laurels in the past. I feel truly privileged to join this family and am excited especially since at this point of time TGS is a major hub of activities contributing to the success of Tata Steel's prestigious Kalinganagar Project coming up in Odisha. I see this as an enormous challenge and a great opportunity for TGS to test its ability to deliver in terms of quality and time. This is also a huge learning opportunity which I am sure will stand us in good stead as we compete in the domestic market in days to come to establish ourselves as the supplier of choice in line with the tenet of Tata Steel.



Consistent with our Aspiration to be a leading technology leveraged company, we have made substantial investments on up-grading the technology, people and the process. New equipment have been installed to augment our capabilities. More investments are in the offing. We hired some renowned consultants to look at our system and processes and guide us on improving these in a systematic manner. On the people front, we have recruited technical hands at various levels for the key functions and entered into strategic tie-ups with IDTR and CTTC to enhance capabilities in machining and Auto-CAD. All these measures, I am sure, will enable us to serve our customers better in the days to come.

As we gear up to meet the expectations of our customers, I see a major challenge of timely execution of the projects while maintaining the highest levels of safety standards in our operations. While we have a healthy order book status, we must deliver against the promise made to the customers and accomplish this without any injury to people. And all this is possible with strict adherence to systems and processes in every sphere of our activities.

I am confident that we will collectively stand up to the challenges ahead and deliver and in the process set new benchmarks of performance.

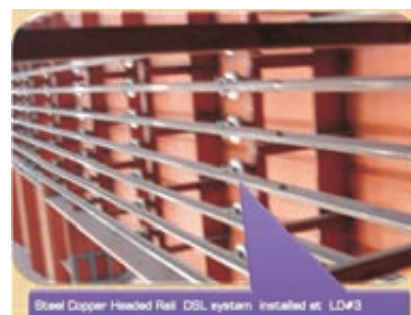
With best wishes

Rupam Bhaduri
(Rupam Bhaduri)

News from Design

A New Variant of DSL Designed for the First Time in India

TGS has designed a new variant of DSL (Down Shop Lead) viz., Solid Copper Rail system for 500 tonne Ladle Crane for the Kalinganagar Project Odisha. DSL is a power feeding system to cranes from ground power station. Traditionally, steel copper headed system is used to feed power to the high capacity cranes. However, this is found to be inadequate to meet the high power demand of approx. 2700 KW for the 500 + 125 t x 23 metre span Ladle Cranes. The Solid Copper Rail system in which the entire portion of rail is made of hard drawn solid electrolytic copper has a high current carrying capacity and meets the power demand of such cranes. This is the first time in India that a Solid Copper Rail system has been designed for 500 + 125 t ladle cranes.



Down Shop Lead(DSL) System in LD#3, Tata Steel

News From Design

TGS Develops Mobile Nozzlex Addition System for LD#3

TGS has developed a mobile Nozzlex Addition System for LD#3 used to spray nozzlex powder on the slide gate nozzle of the ladle before pouring liquid steel in the ladle. This prevents jamming of the nozzle due to solidification of liquid steel. The Nozzlex trolley has two drives, one for the travel motion of the machine and another for lifting and lowering of the nozzlex addition pipe. Nozzlex powder is fed through funnel manually. Similar system is being designed for KPO SMS.

In operation, the ladle after slide gate cleaning is positioned with its axis in vertical position. Nozzle trolley is moved from the parking position and brought over the ladle and the Nozzlex pipe lowered and aligned with ladle nozzle. Pre-heated nozzle powder is fed into the funnel attached to the feeding pipe whereby the powder gets sprayed on the nozzle. After spraying, feed pipe is lifted and machine is moved back to its parking position.



Mobile Nozzlex Addition System

Business Development

TGS receives order worth Rs. 25.60 crores from Indian Railways

The business relation with DLW, Varanasi (A unit of Indian Railways) & TGS started in 2000 – 2001. TGS has been continuously supporting DLW to develop world class new products for import substitution. Engine Coupling, Under frame Assembly & Kit, Crank Case, 16 Cylinder Engine Block are the main items, where TGS is considered as the 'Category 1' manufacturer & supplier by DLW, Varanasi. In FY '13, TGS has bagged two major orders from DLW, Varanasi, worth Rs.25.60 Crores for the manufacture & supply of 32 nos. Under frame Assemblies & 51 nos. Kit for Under frame assemblies of WDG4 Locos. TGS is continuously striving to develop more products for DLW, as well as to increase the rate of supply of the existing products.

News From Manufacturing

Bedway Grinding Machine Re-vamped

The Bedway Grinding Machine which was under-utilised due to low availability, was recently re-vamped using in-house resources. The Machine was saddled with a number of problems due to non availability of out dated spares. The major problem was the mal-functioning of vertical feed for the last many years due to hardware and timer problem. In addition, there were problems due to failure of cable drag chain, lubrication system and absence of display to indicate machine running and problem. The maintenance group of TGS took up the challenge of reviving the machine incorporating new PLC so that trouble shooting became very easy to maintenance persons. The rope drive of the saddle was replaced with chain drive resulting in elimination of saddle down time. Measures were also taken to remove unsafe conditions near the machine. The revival of Bedway Grinding Machine will greatly augment the production of KPO items especially the liner plate expected to commence shortly.



EIC TGS inaugurating the bedway Grinding M/C

The machine was inaugurated by Mr. Rupam Bhaduri, EIC(TGS) on 9th January, 2013 and handed over to the shop for production.

News From Erection & Commissioning

KPO Update

TGS is contributing in a major way for the up-coming 6.0 MTPA project of Tata Steel at Kalinganagar, Odisha. TGS has received orders worth more than Rs.2000 crores comprising various packages as given below.

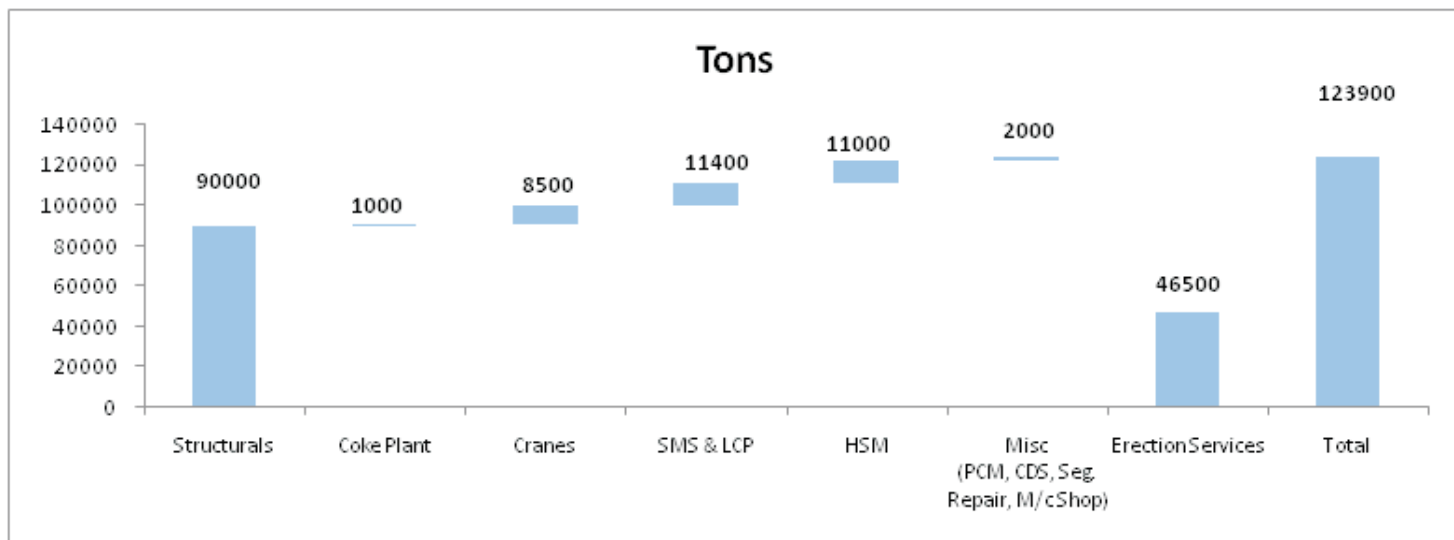


Fig. Approx. tonnages against various packages ordered on TGS

Structural erection work on various project sites such as Power distribution system, Steel Melting Shop, RMHS has started. There are two lime kilns ordered on TGS. Equipment erection on one of the lime kilns has commenced.



Erection work at Lime Kiln in progress at KPO

Education and Training

Workshop on Measurement System Analysis (MSA)

A two day workshop on Measurement System Analysis was conducted at the TGS Training Centre. A group of twelve employees of TGS are being trained to develop in-house capability of conducting MSA study in order to eliminate the variations in the measurement system which is crucial in manufacturing. The group will be subsequently carrying out studies to identify the areas for improvement in measuring equipment- handling, storage, calibration, proper usage etc. and also improving the skill levels of the existing operators. The workshop was facilitated by M/s OMNEX.



Trainees with the faculty from Omnex

Workshop on CCPM

Two half day workshops on Critical Chain Project Management (CCPM) were conducted at Training Centre TGS for cross functional teams comprising; Design, Project management, Manufacturing, Commercial and Quality Assurance. The objective was to impart basic awareness on CCPM and Concerto followed by development of project networks to facilitate project control based on the principles of CCPM. With this, there is better visibility of various activities of the projects enabling pro-active control on delivery of projects. There are 8 nos. of KPO cranes and one LCP project which are uploaded on Concerto. Other projects will follow shortly. The workshop was facilitated by the TOM group Tata Steel.

Education and Training

TWI UK Imparts Training on Welding Software

A 3 day Training programme was organised to train personnel of TGS on WeldSpec & Weldequal Software.

As an Industrial Member of The Welding Institute (TWI), UK, TGS has procured Weldspec software from TWI to improve & standardise welding procedure documentation. The software has been developed by TWI taking all references from ASME and DIN standards and will be helpful to generate welding procedure specification (WPS) & Procedure Qualification Recordings (PQR). Soft copies in the standard format are automatically generated by this software which can be uploaded on common server for all end users.



Training on welding software in progress

Mr. Andrew David Brightmore, Software Business Development Expert from TWI conducted the training programme. The objective of the training was to impart awareness on the functioning of the software as well guiding IT personnel for running and maintaining the software. Officers from Fabrication & Welding and Quality Assurance attended the programme.

New softwares "Weld Estimation" & "Weld Co-ordinator" were also demonstrated to participants from Design, Fabrication & Welding and QA.

Reward and Recognition

Tata Steel Deming Trophy for TGS

TGS bagged the coveted Tata Steel Deming Trophy for Small Group Activities for the year 2012. The trophy was handed over by Mr. H.M. Nerurkar, MD Tata Steel to Mr. Rupam Bhaduri, EIC, TGS. This is the first time that TGS has received this trophy. The Trophy is awarded to the divisions for promotion of SGA activities involving shop floor employees. TGS registered the highest number of kaizens in Tata Steel for the second consecutive year.

In addition, the SGA team Maryada secured 4th position in the Manufacturing Stream and was felicitated at the JWQC Annual Recognition Function.



The Tata Steel Deming Trophy awarded to TGS



Team Maryada being felicitated at the JWQC Award Function

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