

From the desk of the Executive-In-Charge

Dear Stakeholders,

In today's business environment, growth seems to be the mantra to survive the competition faced by the organizations. Companies today are looking to grow at a pace never seen before. However, in this race for growth, we can't ignore our role in preserving the environment that we live in. In fact, a lot of damage has already been done to the environment, some of which might just have been irreversible.

The global climate change that we see over the past few years is just an indication of the same. It's time to act now and I feel, all of us individually and especially the corporate houses, collectively have to make a conscious effort to preserve environment as part of their social responsibility. A small step would help to build a better place for our next generations to come.

At TGS, we have undertaken some definite steps towards mitigating the impact of our operations on environment. On the energy conservation front, we have introduced pipe lights in the shop floor and transparent roofing sheets to utilize the natural light; capacitor bank to improve the power factor. We have commissioned the state of the art shot blasting and painting machine which promises to be more environment friendly. A campaign on tree plantation has been undertaken with a target of planting 3000 trees this year and a study on carbon footprint mapping is underway to assess the impact of our operations on climate change and develop mitigation strategies.

I do hope, all these steps and our continuous endeavor to preserve environment would help us in contributing to the global efforts on creating a greener planet in a meaningful way.



With best wishes


Rajesh Ranjan Jha

TGS *Looking ahead*

New order for TGS from Indian Railways - 2011

TGS bagged a new development order from Diesel Locomotive Works(DLW), Varanasi worth Rs. 12.82 crore GTO for supply of 25 nos. of fully machined crank case assembly of 16 cylinder Engine block for the new generation 4000 HP EMD (Electromotive drive) Locomotive. This is the first time that an Indian supplier has supplied a fully fabricated and machined crank case to DLW.

The development of this component will go a long way to create a niche market on continuous basis for TGS in the future, since DLW is increasing its annual production of EMD locomotives from less than 100 to 250 in the next 2 years.

TGS has been continuously supporting DLW in the import substitution of critical components for new generation 4000 HP EMD locomotives & ALCO locomotives. During the last 10 years, TGS has developed components like Engine coupling, Cover & Frames, Under Frame Assembly and Machining of Crank Case & other Engine blocks.

Refractory Lining Work at LCP Commenced

Refractory lining was a critical activity for completing the LCP job within the scheduled time frame. However, the monsoon was a big threat to meet the dead lines since normally this type of work is avoided because of the ingress of rainy water in confined space.

To circumvent the problem, TGS took special measures to protect the entire area from the rain water from various openings present at the shell. The complete work space was covered with corrugated sheets to avoid any possibility of passage of rain water. As it was a confined space, emergency rescue system was adopted along with special safety measures. Seven blower fans continuously pump air into the twin shaft kiln, making the working environment inside the kiln safe and clean with ample supply of fresh air.

The work progress has been satisfactory and is as per the planned schedule. Till date 17 layers of refractory brick work have been completed in both the shafts of Kiln 8. The refractory job is no longer in the critical path of project schedule.



TGS Designs Mill Scale Handling Crane

Tata Steel Growth Shop designed a special 5t EOT crane for LD # 3 & TSCR for handling mill scales. This is a class-4 outdoor duty application crane designed to grab the scales from the scale pit and load it on the dumper. The span being very small at 6.8 metre, it was a challenge to incorporate the following features which were successfully accomplished by the designers:

- Precise hook approaches on both side of the crane which were required to grab the scales from the extreme side of the pit.
- Precise end approaches which were required to lift the scales from the pit and load it on the dumper.
- Accommodation of the operator's cabin and the electrical panel with 750mm maintenance space in front of the panel, a hydraulically operated storm brake at each side, DSL inspection cage and power feeding system (Festoon Arrangement) for the trolley
- Maintenance approach for cross travel drives unit and walk way on the end carriage at both sides of the crane, required as per safety rules.

Although a very small capacity crane, it has all the features meeting Tata Steel's crane safety norm.

Patent for Combined Slag and Hot Metal Transfer Car

TGS has designed and manufactured a unique transfer car known as "Combined Hot metal and Slag Transfer Car" with ladle tilting facility for application in steel making in Tata Steel. TGS has filed a patent for the equipment after its successful commissioning. The Combined Car not only improves the cycle time of the slag removal process by eliminating all movement of the ladle between the slag raking machine and the de-sulphurisation station, but also takes care of the ladle manipulations required during the de-slagging operation. This relieves the busy ladle crane for other shop operations, thereby improving the productivity of the shop.



TGS Happenings

JN TATA Assessment of TGS- 2011

A team of assessors from Tata Steel led by Mr. S.K. Shrivastav, Chief Cost Research and Standard Costing visited TGS for the assessment of JN Tata Total Quality Award 2011. The team was mentored by Mr. O.P. Mishra, GM (Logistics), Engg. & Projects. The assessment is based on the Malcolm Baldrige model, USA which provides holistic criteria to assess any business in terms of the approaches, their deployment and the business results.

During the 2 day assessment, the assessors visited the premises of TGS and held discussions with the key officials including the Union and cross section of employees. The feedback was presented to the Senior Management after the assessment. TGS made significant improvement from the last year and was placed in the band of 351 to 450 on a 1000 point scale. The JN Tata Award is given to the applicant scoring the highest with a cut off score of 550.



A job well done

Machine Shop was given a job of manufacturing 402 nos of rolls of segment, of diameter ranging from 130 – 170 mm and length ranging from 430-722 mm for which the SBCNC Lathe was best suited. However, since the steady rest was not provided by the manufacturer, it was not possible to machine the rolls on the SBCNC Lathe. The supplier, M/s FAR Bangalore who was contacted, offered to provide a hydraulic steady rest. This was however, found to be in-convenient due to high combined weight, longer loading time and involvement of personnel for loading/un-loading. The initial cost was also high. Faced with the above constraints, a team comprising V. K. Singh, Head Machine Shop, M. Dwivedi and U. P. Singh took the challenge of designing the steady rest in-house. The team designed and implemented a bearing-based steady rest which gave better results in terms of loading/un-loading time, set up time and cutting speed at negligible additional cost.



Congratulations to the team for a good job done!

TGS Reward & Recognition

SGA Circles Recognized

68 SGA Circles covering over 400 members were felicitated in a Mass Meeting organized at TGS. Mr. Rakeshwar Pandey, President, TMU, Mr. Gyan Ratna, Chief Operations, Mr. Balmiki Dasgupta, Chief Projects and Mr. Sheo Lakhn Singh, General Secretary, TMU gave away the awards. Earlier, EIC (Growth Shop), Mr. Rajesh Ranjan Jha handed over cheques to four suggestors for their outstanding suggestions.

Speaking on the occasion, Mr. Rakeshwar Pandey emphasized the importance of human resource in today's competitive world and their development through Small Group Activities(SGAs). Mr. Rajesh Ranjan Jha added that a number of steps are being taken for people development in TGS such as, a visit to world class companies in India and abroad, Trade Shows, collaboration with well known institutes etc.. In addition, TGS is investing in technology to make it a world class company.

TGS has been practising the Toyota Way integrating Safety, Quality and Innovation which is a unique initiative in Tata Steel. In FY'11 TGS completed 4080 kaizens which was the highest in Tata Steel.

Our Star Performers

Mr. Birendra Pandey, Chargeman and Mr. A. Aich Foreman, both from Electrical Maintenance were recognized as the Star Performers . The certificate of recognition was handed over to them by the Chief Manufacturing, Mr. Gyan Ratna.

Mr. Birendra Pandey was recognized for implementing an anti-collision system for the cranes operating on the same track line in Bay#2. Mr. Aich developed necessary control circuit for preventing frequent interruptions due to failure of fuses during start up of Medium Lathe Machine. TGS Inside-Out congratulates both the achievers!!



Mr. Birendra Pandey

Mr. A. Aich

"Forests: Nature at your Service"

The World Environment day was celebrated in TGS on the theme "Forests: Nature at your Service". Our environment is the future of our world. On this occasion, a Tree Plantation Campaign was launched at the TGS Premises. The objective was to plant 2500 hundred trees at TGS Works and colony during the month of June 2011. The Campaign was launched by Mr. Akhilesh Sharma (I.F.S), Seraikella-Kharsawan, Jharkhand by planting a tree. A total of around 300 trees were planted on that day.

Addressing the gathering, Mr. Sharma appreciated the greenery in and around the TGS Plant. He stated that the industry must keep one-third of its area green and in this direction, he expressed his satisfaction that TGS was adhering to these norms. He finally urged all present to take a pledge to protect the environment and greenery which we have inherited from our forefathers.



Mr. Akhilesh Sharma (IFS), DFO addressing the gathering



Launching of Tree Plantation Campaign

Jagriti: The Journey

The story so far...

The formal land breaking ceremony by Mrs. Daisy Irani in 1995 led the way for a new building, which was Jagriti's operating centre and a nursery school was started by Jagriti to provide Quality Education to the children from Gamharia and the villages around it at a nominal fee structure... The school is doing well with a strength of 97 students, 10 teachers and one support staff. Extra efforts have been made to sensitize the tiny students and their parents on health, nutrition and hygiene, so relevant at that age, through workshops and seminars.

Now...

Since 2009, Jagriti has taken the initiative of organizing free medical check-up for the school children. Each student of Jagriti School has been given a medical card. The medical checkup is being done regularly for these students.

Jagriti also organized spoken English classes in the Jagriti School premises where at least 20 students from the nearby villages and the Tata Adityapur Complex had enrolled for these classes. Music and art classes are also conducted in the school premises every week.



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