



# Quality Month

## Unites All

Once again, November was observed as the Quality Month at the Tata Steel Bearings Division. Mr K N Rao, Head-Technical Services, in his inaugural address, declared the quality theme for the year - "ZERO DEFECTS THROUGH PROCESS POINT ANALYSIS".

The Division welcomed Mr Bimlendra Jha, VP Long Products & Chairman TQM Council - Bearings, to kick off the Quality Month celebrations. In his address to the gathering, Mr Jha emphasized the essence of quality at every point of activity. He also spoke about the new corporate initiative, KAR VIJAY HAR SHIKHAR, and urged the employees to participate in the improvement projects.

Mr Harsh Sachdev, Executive-in-Charge (Bearings), also echoed the same and encouraged everyone to improve quality and productivity through TPM activities to meet the challenging market aspirations. He also spoke about the need to focus on greater customer satisfaction both in terms of Quality and Services.

Mr Kalyan Kr Mukherjee, Working President TLWU, spoke on this occasion and guided all employees to work towards customer satisfaction and growth of the Division.



A number of events were organized throughout the month as part of the Quality Month celebration, including a World Quality Day Function and other activities such as essay, poster and slogan competitions on Quality.

Winner and Runners-up for each event were awarded on World Quality Day. An eventful Quiz Competition was also held on 27th November 2010, which was well attended and also saw the participation of our business partners. EIC (Bearings) who was the Chief Guest for the event, gave away the prizes.

On the concluding day of the Month, a Technical Diary was published for all employees. Long Service Awards and Employee of the Month Awards were given away by EIC (Bearings) and General Secretary TLWU.

## Greetings from Team Bearings for a Smooth & Successful 2011

Dear Friend,

It's the start of a new year and the best time to strengthen our partnership and set new targets to be reached together.

Drive for excellence has enabled The Bearings Division of Tata Steel to achieve significant heights in performance and productivity in the last few months.

We are sure that with your continued support we will be able to take on many new challenges in the days ahead and bring you the best in product quality and technology.

We wish you and your family a very happy, healthy and successful 2011.

## Recognitions & Awards

Received "Zero PPM" quality rating consistently for months April to December of FY11 from M/s. Toyota Kirloskar Auto Parts Pvt Ltd for the supplies of bearings.



Received "Customer Delight" certificate for achieving target quality rating from M/s. Tata Motors PCBU, Pune, for the supplies of bearings for December'10



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# Bearings Division on an India Tour

## OE Meet at Chandigarh

Bearings Division held an OE Meet in Chandigarh in November which was attended by important customers from the Tractor segment, namely Mahindra Swaraj, Swaraj Engines, Indo Farm & International



Tractors Ltd. Senior Management of the companies were present at the event. The discussion updated customers on the latest developments at the Bearings Division and the future plans. The enthusiastic response from the gathering made the evening truly meaningful.

## Customer Meet at Coimbatore

A Technical Meet was organized in the premises of Best Engineering at Coimbatore in December '10, which was attended by 22 employees from the shop-floor. Mr Mahesh, CEO, Best Engineering, was invited to inaugurate the meet.



The manufacturing process of bearings along with inputs on the nomenclature, selection, maintenance, fits and tolerances, radial clearance, lubrication, mounting and dismounting methods were explained to the gathering by Mr Harminder Singh, Mr Ranjan Dutta and Mr S U Moorthy of Tata Steel Bearings Division.

This was followed by an interactive question-answer session. Many questions on the curvature, RC, Grease, Do's and Don'ts while mounting bearings on the shaft & housing, were put forward and their solutions discussed by Mr Dutta.

## OE Meet at VST Tillers & Tractors Ltd, Bangalore

Bearings Division held a Meet at VST Tillers & Tractors Ltd, Bangalore in December which was attended by the Line Managers and Senior Management of the company. The meet was organised for knowledge sharing on processes of proper fitment, Do's and Don'ts of handling bearings and problem solving methods related



to bearings operations. Technical presentations were conducted which were followed by interactive sessions on customer specific issues. VST is on a growth path and aiming for a major expansion in the next couple of years.

## Technical Workshop at Kirloskar & Bajaj



Technical workshops were organized at Kirloskar Oil Engine Ltd, Pune and Bajaj Auto Ltd, Pune to educate the customers' shop floor workforce on the process of proper fitment, Do's and Don'ts and solutions were provided for problems related to bearings faced by operators at production lines. These meets were organized as part of knowledge sharing on bearings fitment with the customers' Line Staff to ensure proper handling and fitments of our bearings.

## KAMCO Meet

The Meet at KAMCO focussed on Ball & Roller bearings with special stress on Selection, Nomenclature, Radial Clearance, Fits and Tolerances, Lubrication, Reasons for Failures, Do's and Don'ts of mounting / dismounting on Shaft & Housing. The details

were explained by Mr Ranjan Dutta, of Tata Steel Bearings Division



This session was followed by an exciting Technical Quiz involving questions on the Bearings Division. Mr Saleem from Kamco's Mala Unit secured all correct answers followed by two delegates from the Athani Unit securing 26 and 29 points respectively. The winners received crystal bowls as prizes. The session was very well appreciated.



A shop floor visit was also organised, where the mounting and dismounting processes were observed and suggestions given for improvements. The tiller production line was inspected by the entire team and visiting delegates.

## Interactive Session at Tata Motors

Interactive session held at Tata Motors, Pune. The discussions entailed updates on the manufacturing process of bearings along with relevant inputs on Selection, Maintenance and Fitments. The discussion culminated with a range of questions and answers. A number of queries were put forward by the crowd, chiefly on curvature, RC, grease, besides regular Do's and Don'ts of mounting bearings, to which extensive explanations and solutions were given by Team Bearings.

**New Product Development**



Bearing No.	Customer	Application
6013 2RS	RSB Transmission	This bearing has been designed and developed for the application in propeller shaft of LPT 3180 and LPT 2518 Models of Tata Motors Trucks.
6304 EL	Tata Motors Ltd	This bearing has been designed and developed for Gear Box application of NANO car (Euro model) to have 50% higher fatigue life compared to normal 6304 bearing.
62/22 EL	Piaggio Vehicles Pvt. Ltd.	This bearing has been designed and developed for Gear Box application of existing 3-wheeler and New Model of 4-wheeler (0.5 tonner) of PVPL to have 50% higher fatigue life compared to normal 62/22 bearing.



**Employees Wellness**

Ever since the drive for Wellness was initiated in the Tata Steel Bearings Division, different activities have been on the roll. To promote sports, a Table Tennis Coaching Camp has been started at the Tata Bearings Employees' Recreation Club, under the mentorship of Mr Rajib Dutta. This has drawn several children and their parents to join. To keep the tempo alive, the Division also organized a Volley Ball Tournament covering all the sections. The event turned out to be a great success, encouraging many to take up such sports.

## Generator Sensor Bearing Unit Improves Rail Track Safety and Optimises Logistics

Based on Generator Sensor Bearing (GSB), a renowned German Group has developed an award-winning Train Support System. This novel, onboard unit enables information to be recorded relating to the condition of bearings, wheel sets and rail tracks, and to then transmit this information to a higher level control system.

This evaluated data forms the basis for maintenance and repair decisions and is also critical for railway supervisory systems, as well as for online timetable generation, routing, process and risk analysis, localisation and so on.

Germany's Center for Transportation & Logistics, Neuer Adler e. V (CNA) recently recognised the Train Support System with this year's Intelligence for Transportation and Logistics innovation award.

### From Rolling Bearing to Onboard Unit

The Train Support System is based on axlebox bearing, which can be used with an integrated GSB as a self-sufficient energy source in rail freight wagons. At first the system electronics and software was developed which was and then integrated in the GSB, forming an onboard unit.

Used in combination with an information management system, the GSB enables line operators and rail companies to improve track safety, whilst optimising freight logistics. A wide range of different signals are recorded in the GSB and transmitted to a central computer via GPS. The evaluated data forms the basis for rail supervision systems, as well as online timetable generation, routing, process and risk analysis, localisation, length of retention and so on.

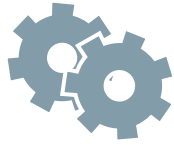
Similar to a dynamo, the GSB induces the required electric power via the rotational movement of permanent magnets located on the wheel axle. This power is typically around 100W at a nominal voltage of 24V. Therefore, an independent, self-sufficient energy source is available, which, via an electric storage unit, enables additional functions, such as the automatic opening of train doors or the detection of switches and sensors.

For the Train Support System, the GSB has now been refined and connected with a higher-level information management system. So the signals are not only recorded and processed in the bearing, but are also transmitted via GPS satellite technology.



# Best Ever Performance

in any month in the **History of Bearings!**



## Production

### December 2010

29.70 Nos. in Lakhs  
312 Throughput in Tonnes

### Previous Best March 2010

28.74 Nos. in Lakhs  
310 Throughput in Tonnes



## Sales

### December 2010

29.08 Nos. in Lakhs  
302 Throughput in Tonnes

### Previous Best March 2010

29.04 Nos. in Lakhs  
294 Throughput in Tonnes



## Despatch

### December 2010

30.35 Nos. in Lakhs

### Previous Best March 2010

28.21 Nos. in Lakhs

## Vendors Observe Quality Month in their Plants



Mr A Dutta (Sr Mgr Planning, Tata Bearings) unfurled the Quality Flag at TECHNO ENTERPRISE. Present with him are Mr S P Adhikari (proprietor-Techno) and Mr A Dasgupta & Mr A K Bardhan from Bearings.

Employees of SARSWATI ENGG. observed Quality Month in their Plant



## Go for right food choices based on the body mass index

Dr. A. S.Prasad

- Avoid foods that contain a lot of cholesterol, like meats and egg yellow.
  - Eat less fat especially saturated fats, generally obtained from animal sources.
  - Include lots of fresh fruits and vegetables as salad in your diet.
  - Avoid fatty and fried foods such as pakoras, puris, parathas, samosas and cutlets.
  - Maintain a normal body weight.
  - Restrict the intake of sweets including sugar, barfi, gulab jamuns, rasgullas, pastries and cakes.
  - Avoid colas and other carbonated drinks.
  - Stop smoking.
  - Restrict alcohol intake.
  - Exercise regularly to keep fit. Yoga is good.
  - Reduce stress and relax after work.
  - Follow-up regularly with the doctor.
  - The body mass index (BMI) is a statistical measure of the weight of a person scaled according to height.
  - BMI is calculated as the individual's body weight (in kg) divided by the square of their height (in meters).
  - BMI is frequently used to assess how much an individual's body weight departs from what is normal or desirable for a person of his or her height. The excess weight or deficiency may, in part, be accounted for by body fat although other factors such as muscularity also affect BMI.
- BMI (kg/m<sup>2</sup>)
- < 16.5 - Severely Underweight
  - 16.5 to 18.5 - Underweight
  - 18.5 to 25 - Normal
  - 25 to 30 - Overweight
  - 30 to 35 - Obese
  - 35 to 40 - Clinically Obese
  - >40 - Morbidly Obese

## NEW Tata Bearings Multipack



Bearings Division of Tata Steel has recently launched a new Bearings Multipack - MP203X5, as part of the Division's programme for launching a range of Twin Packs and Multipacks. The pack promises significant saving on cost, time and hassle while promising consistency in quality, and is sure to attract bulk consumers.



We welcome your feedback on our edition of 'BREAKING NEWS'

Please send your replies to

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