

**BLOG : Water Conservation – THE NEED OF THE HOUR**



**W**ater is a success story in Mahindra Sanyo as we have considerably reduced the intake from the river passing by the plant. Further reduction will become more difficult - more passion and involvement, technology support and project financing will come into the play. We should become highly sensitive to the smallest leakage and wastage. I wish the number of water champions increase by the day. In the shop floor, in the departments, in the offices and at our homes. It is said that water can be the cause for the next big war. Water stress is on the increase. As the effect of climate change is felt, adequate availability of water may be of concern even to areas that are not stressed as yet. Our aspect team has a super goal: *to become water neutral in Mahindra Sanyo.*

None or bare minimum lift from the river. More water harvesting. May be a watershed

tomorrow. New technology frontiers are being discussed – shall we replace cooling towers by chillers, how to recycle and reuse more water etc. Water cost has increased in the last few years from Re 1 / 10 m3 to current average of Rs 80 / 10 m3. True cost of water may be higher. We know it will increase in the future. And what if the lakes in Lonavala dry up – what if the river dry up? Where will we get water from? The aspect team for water is making the company future proof by aspiring to become water neutral. When we see the picture of thousand people surrounding a small well in Marathawada, our responsibility and resolve to 0 waste, 0 leakage and total water conservation increase 1000 times.

**Mr. Uday Gupta**  
**Managing Director**

**Water : DNA of Life**

Water is life. Growing pressure on water resources from population and economic growth, climate change, pollution, and other challenges has major impacts on our social, economic, and environmental well-being. The world's water is increasingly becoming degraded in quality, threatening the health of people and ecosystems and increasing the cost of treatment.

The world's water problems stem from our failure to meet basic human needs, ineffective or inappropriate institutions and management, and our inability to balance human needs with the needs of the natural world. These problems are rooted in a wasteful use of water, characterized by poor management systems, improper economic incentives, underinvestment, and failure to apply existing technologies.

The good news is that we at **MSSSPL** are making progress. We have focused efforts at all levels to look at the proper use of water. Our push toward a reevaluation of the importance of water-use, conservation and efficiency is leading to fundamental changes in water policy in the company. The work continues, because more needs to be done – much more. The most important change we can make is in the way we think about, value, and manage our water...Let us all contribute and save water.

**Mr. R.G.Gokavi**  
**Mentor : Resource Intensity**

**Why & What is Sustainability**

It gives us immense pleasure to restart the sustainability updates newsletter.

Gone those days when the business focused primarily only on profits.

Entire strategy & investment decisions were volume & revenue expansion based.

While doing business, we keep consuming a lot of natural resources like water, land, air, minerals etc...

This is leading towards a situation of complete depletion of these scarce resources.

In this scenario, we are forcing our next generations in to serious disaster.

The easy answer to this trouble is to continue doing business taking care of nature & people ensuring life of our future generations simpler. This is called as sustainability. To take care of nature, we concentrate on emissions reduction by controlling our electricity, oil, and water etc... consumption.

This also directly helps improve the profitability.

Thus sustainability is a more comprehensive approach which is people, planet & profit based ultimately making our business long term sustainable.

We at **MSSSPL** have a total of 16 various projects & respective teams to work under sustainability.

They are addressing environmental, social, governance & emerging issues.

Through this magazine, we will introduce each project, the team & their achievements along with future plans every month.

On world water day 22<sup>nd</sup> March, we are happy to announce the launch of 1<sup>st</sup> issue dedicated to water details.

Enjoy reading & please keep suggesting for improvements of this magazine to make it more & more people friendly.

**JAL HAI TO KAL HAI.**

**Mr. R.S. Rane**  
**Head Business Excellence Cell**

## Theme of the Month: **WATER**

### Water @ MSSSPL

**W**ater is the very basis of life and is the foundation for human survival and development. Sustainable and equitable use of water over millennia has been ensured by cultural adaptation to water availability. But in the last few decades the consequences of industrialization and urbanization, population growth and the associated consumerist culture has led to overuse, abuse and pollution of our vital water resources and has disturbed the quality and then natural cleansing capacity of water.

MSSSPL identified water as their one of the important aspect & started working towards water conservation the journey started in 2008 and since have made remarkable progress in water conservation. Our water consumption river intake has been brought down from a level of 6,651 M<sup>3</sup> of F10 to 1,960 M<sup>3</sup> of F15. There has been a 70 % reduction in 5years.

MSSSPL draws water using three pumps from **Patal - Ganga** river, which flows along the plant boundary. This water is used for cooling of Furnace panels, furnace doors, hydraulic heat exchangers & equipments during the manufacturing process of steel. The water is also used for domestic purposes in our housing colony adjacent to plant.

The journey of water reduction was achieved with excellent team work & by arresting leakages & sewages throughout the plant.

As we all know there use to be a heavy rain water flow going out of the colony. A very smart initiative was taken by us to build a check dam to harvest the rainwater as a result four months of monsoon we have stopped lifting the water from Patal Ganga.

In an other initiative we have started using sewage treated water for gardening after necessary filtration & also we have replaced underground pipeline network with overhead system, prepared a water balance study and accordingly we took actions for zero waste discharge.

The Journey has just started.

#### Team Members: Water team :

Sr. No.	Name	Responsibility	Sr. No.	Name	Responsibility
1	Mr. S. Chakrabarti	Mentor	1	Mr. J. K. Mhatre	Member
2	Mr. P.N.Gawade	Leader	2	Mr. M. Y. Joshi	Member
3	Mr. J.D.Patil	Co - Leader	3	Mr. P. Jadhav	Member
4	Mr. S.B.Bhapkar	Member	4	Mr. P.N. Deshmukh	Member
5	Mr. Sandeep Jadhav	Member	5	Mr. Ramesh Solanki	Member
6	Mr. Atul Khilari	Member	6	Mr. Manohar Surve	Member

**- Mr. S. Chakrabarti**  
**Mentor : Water team**

#### Water Core Team



Mr. S. Chakrabarti



Mr. P.N.Gawade



Mr. S.B.Bhapkar



Mr. Sandeep Jadhav

## Quality Awareness Workshop @ MSSSPL



**T**raining and development describes the formal, ongoing efforts that are made within the organizations to improve the performance and self-fulfilment of the employees.

We at Mahindra Sanyo place equal emphasis on Training as an important means for skill development. Over the last one year we have been celebrating Theme based month in our company, 'Quality Month' was one such significant happening in Q3 of F16.

During the Quality month, we engaged in innovative method of training by setting up class room like setup on the shop floor.

Over the month of January, we trained and engaged more than 400 employees on the shop floor with objective of educating and spreading awareness on Quality.

We trained employees on How to improve quality, Zero rejections and Know your customer. Employees were pleased to know about facts & information given to them and the feedback received from them was satisfying.

We appreciate the participation of all employees and look forward for similar participation for the 'Safety' and 'Water' months which are to be followed.

**Mr. Harshal Jadhav**  
**HR**

### PHOTOS : Quality Awareness Workshop



## PROUD MOMENT : LAUNCH OF SOCIAL HANDBOOK



The growth, development and changing dynamics have always made it challenging for businesses to survive, to maintain the market share, attract new customers and run in profits.

Product innovation, customer satisfaction, customer retention, brand loyalty, goodwill building and nevertheless stakeholder satisfaction have been the pillars of attention in the recent times. Which have proved to help businesses in tough times of cut throat competition.

In one of the similar attempts of product innovation and stakeholder's satisfaction, Mahindra Sanyo has participated in one of the International forums dedicated to develop a methodology and to test run it to map, understand and identify the social impact issues related with the production of the product. For the purpose our rings division product was identified for the case study.

The case study undertaken was in collaboration with BMW Germany as they are the final customers to the bearing rings produced by our steel and rings division which is a component of BMW1 series. The study was conducted across value chain.

The project was an industry led initiative where 10 companies named herein, [AkzoNobel, BASF, BMW Group, DSM, Goodyear, L'oreal, Mahindra Sanyo, Philips, Steelcase & Vattenfall] from different sectors

participated to do the study under the technical guidance of PRe (a sustainability consulting firm). All these companies participated with their respective case studies to test run the methodology so developed.

The bigger aim of the project in times to come is to get an ISO standardisation on the same lines of conducting Product Social Life Cycle Assessment

It gives me immense pleasure to present to you the official launch of the SOCIAL ROUNDTABLE handbook.

<http://product-social-impact-assessment.com/pilot-tapered-roller-bearing/>

Would like to thank you all for making this study possible with your kind efforts and inputs.

In fact a very proud moment for us all at Mahindra Sanyo that we are a part of this and the commitment that we have for **SUSTAINABILITY** be it Environment or Social.

SUSTAINABILITY is everyone's' responsibility

**WE know what it takes and we are determined to make it better always.**

**Ms. Ambalika Gupta**  
**Business Excellence Cell**

**KAIZEN**

**Safe Working** In SMS by Electrical Maintenance Department

**Idea:** Cable rail trolley provided for easy & safe operation

**Before:** EBT DRI trolley, cable movement was on ground level & was handled manually. So the chances of cable damage & getting Electric shock was more.

**After:** EBT DRI trolley cable movement is now supported by rail trolley & it is above the ground level in order to make it as an safe working condition.

Team Members :

**Mentor: Mr. Kadam Vijay Contributor :**

- 1) Mr. Gaikwad
- 2) Mr. Ghatwal
- 3) Mr. Bhole
- 4) Mr. Choudhar

**Water Saving at MSSSPL**

⇒ Original Sanctioned quota: 667 unit / day agreement period 01.06.2012 to 31.05.2018.

⇒ Revised Supplementary agreement: 400 units / day period 01.11.2012 to 31.10.2013.

⇒ Further revised Supplementary agreement: Reduction to 350 units /day period 01.11.2013 to 31.10.2018.

● **Current Savings over sanctioned quota: Rs 66,64,608 per year.**

{90% units charged @ of Rs 64 per unit (average of rate Rs 32, 64 & 96)}\* 1 Unit = 10 M<sup>3</sup>

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**-By Water Team**

**JCMM : Sustainability Bytes**

Taken collectively, schools are the major awareness centers regarding various sustainable issues. Sustainability plan was sparked by JCMM School students and teachers which includes an expansion of the already diverse catalogue of curriculum options for students on the environment and climate justice to design strategies and creative social and ecological approaches to environmental issues. In 2015 JCMM renewed and expanded its vision to address the increasingly urgent need to integrate design and environment to solid waste management and its social justice impacts. JCMM accomplishes these objectives by providing Training workshop from Centre for Science and Environment New Delhi for students, and staff with opportunities for interdisciplinary planning, teaching practice, engagement, and environmental citizenship that focuses on a wide range of issues with the waste management task.

In Jun 2015, JCMM School registered in Green School Program organized by CSE.

JCMM students also work with teachers to learn how to grow organic food, manufacturing compost fertilizers, and manage water and waste in closed loop systems.

Through daily project-based learning, students are learning from last four years of hands-on experience in building and maintaining systems essential to survival, through the Schools for Sustainability curriculum.

1. Pack a no-waste lunch
  2. Use reusable water bottles
  3. Motivate JCMM school students to become a "green school"
  4. Set up compost pit
  5. Talk to people about using green cleaning products and limiting the use of Pesticides.
- This year 2015-16, JCMM School is in Top 20 in the Green School Programme organized by CSE, Delhi. Nationwide thousand schools participated in this competition.

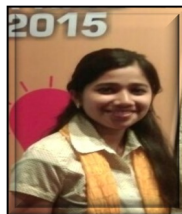
It proves JCMM is on right track with the guidance of our School management.



**Mr. Prashant Kitkule**  
**JCMM School Principal**

**KNOWLEDGE BYTE:**

**Case Study on Rain water Harvesting @ IGATPURI**



"For some time now, the World Economic Forum has placed the world water crisis in the top three of global problems, alongside climate change and terrorism."

Igatpuri is a town and a Hill Station in Nashik District in the Indian state of Maharashtra. It is located in the Western Ghats. Average rain fall in this area 3200mm-3500mm per year, But because of low water holding capacity of soil, the water level goes down, nearest Water storage & supply facility available is Talegaon

dam for Igatpuri population of 1.5 lacs & nearby industry, Every year in month of December the water level of dam starts decreasing down which creates water issues in the area.

Water shortage in Igatpuri has led to various socio-economic problems related to their daily life, Hence they started the technique of rainwater harvesting which involves collecting the rain from localized catchment surfaces such as roofs, plain / sloping surfaces etc, either for direct use or storage in tank & Rain water pond

**Conclusion & Benefits:**

One of the most logical steps towards this goal would be acknowledging the importance of rainwater harvesting. This should not only encompass rooftop rainwater harvesting but also storm water harvesting systems. A planned approach is hence needed in order to fully utilize the potential of rainwater to adequately meet their water requirements.

We have to catch water in every possible way and every possible place it falls.

The Mahindra Group achieved Water Positive status with total water consumption of 6.1 million m<sup>3</sup> and total water savings of 8.4 million m<sup>3</sup> through the offset mechanism of a Micro Irrigation System project implemented in Gujarat.

**Ms. Komal Mangaonkar**  
**Business Excellence Cell**

