

## Connecting to Sustainable Development Goals –Part II

### Alternative Accelerates Results

In theory, each business touches the world uniquely, and the SDG framework allows companies to understand and articulate their relationship with the global sustainability goals with a degree of precision. This is critical not only for the purpose of differentiation, but also because the SDGs are mainly measured at a country level. If they are to make a meaningful contribution, it is vital that companies understand in detail – through structured materiality assessment exercises – what indicators are particularly relevant to the countries within which they operate.

At Mahindra Sanyo we see sustainability as a competitive ad-

vantage. *The principles of sustainability have taken firm roots in our business and by focusing on “alternative thinking”, we have enabled ourselves to accelerate results across economic and environmental bottom line.* Our sustainability goals are not destinations – they are checkpoints that enable us to increase our efforts, to reinvest new opportunities and to renew commitments for better tomorrow.



**-Mr. Niranjan Purandare**  
Business Excellence Cell



**Make cities and human settlements inclusive, safe, resilient and sustainable.**



**Ensure sustainable consumption and production patterns**



**Take urgent action to combat climate change and its impacts**

### Aspect : Green House Gas Reduction

Global climate change has already had observable effects on the environment. Glaciers have shrunk, ice on rivers and lakes is breaking up earlier, plant and animal ranges have shifted and trees are flowering sooner. Effects that scientists had predicted in the past would result from global climate change are now occurring: loss of sea ice, accelerated sea level rise and longer, more intense heat waves.

Carbon dioxide (CO2) and other greenhouse gases act like a blanket, absorbing IR radiation and preventing it from escaping into outer space. The net effect is the gradual heating of Earth's atmosphere and surface, a process known as global warming.

We at MSSSPL have prepared 5 year roadmap to address issues related to climate change as a sustainability initiative of our company.

**The GHG aspect vision is to reduce GHG emission scope 1 by 35 % from baseline of F 13 by 2022 & to reduce GHG emission scope 2 by 40 % from baseline of F 13 by 2022.** The aspect vision is linked to MSSSPL vision on achieving brand image through

admiration and being socially responsible by Green House Gas (GHG) reduction & abating global warming or mitigating climate change. The vision is in line with SDG 7 (Affordable & clean energy), SDG 11 (Sustainable cities and communities), SDG 12 (Responsible consumption and production) and SDG 13 (Climate action).

Successful implementation of oxy-fuel solution for reheating furnace at blooming mill & forge shop in past years has resulted in reduction of NOx almost to zero.

Now renewables are expected to grow faster than any other primary energy source in coming years, by an average of 6% per annum. We have set a goal to achieve energy generation through 4MW roof top and ground solar system.

MSSSPL is confident that above initiative will reduce the GHG emission and it will be at par with best Sustainable Steel Industry.

**-Mr. Prasad Giri**  
Business Excellence Cell



### Aspect : Pollution Prevention

Pollution prevention is any practice that reduces, eliminates, or prevents pollution at its source. It is the ounce-of-prevention approach to waste management. Reducing the amount of pollution produced means less waste to control, treat, or dispose of. Less pollution means less hazards posed to public health and the environment.

We at MSSSPL are focused to address pollution prevention within the plant area and outside plant premises, that includes a wide range of activities, including sustainable development that conserves land around company and using sustainable energy sources like solar or biofuels. It means designing strategies to reduce waste and are recyclable. Sustainability also includes designing closed-loop systems both within and external to the production process.

**Our aspect team of Pollution Prevention has vision to attain outdoor air quality emission to International (EU) standard,**

**zero effluent discharge and re use waste water, indoor (factory as well as offices) air quality to International (EU) standard and to arrest any leachate that may cause groundwater contamination.**

This particular aspect is linked to SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production) and SDG 13 (Climate Action). To reduce pollution prevention, we have invested clean technologies like Oxy-fuel for furnaces in past. Such technologies have resulted in 50% decrease in our overall pollution load.

To further address the pollution risk at Mahindra Sanyo, going forward there are certain projects like Metal recovery from Slag, Upgradation of STP, and Plantation across the premises etc. in pipeline.

**-Mr. Arjun Nanaware**  
EHS Department



**Hat-trick for MSSSPL at CII National Award for Excellence in Energy Management**



Energy Award is the best platform for the organizations that have made outstanding contributions in the area of energy efficiency to showcase their efforts and achievements.

Total 290 companies applied for the awards amongst which 148 were shortlisted for final round of presentation. **Mahindra Sanyo Special Steel Pvt Ltd was awarded as "Energy Efficient Unit" in Metal Sector in the 18th National Award for Excellence in Energy Management 2017.** Mr. Makarand Chikate & Mr. Satyajeet Kumar received the award on behalf of MSSSPL.

CII - Godrej GBC organized the 16th edition of 'Energy Efficiency Summit', International Conference & Exposition on Energy Efficiency on 30, 31 August & 1 September 2017 at HICC, Hyderabad. The CII National Award for Excellence in Energy Management, the 18th edition of its series covering all types of industrial sectors in India was coalesced with the summit. During the Summit, the short-listed companies were invited to make presentation at the Award programme. The objective of the Award Scheme is to recognize and Award Excellence in Energy Management among the Industrial Sector and facilitate sharing of information on best practices & technologies. Industries were categorized sector wise: Automobiles, Buildings, Cement, Engineering, Fertilizers, FMCG, Metals, Pharma, Power, Paper, Refineries, and Textile & Sugar.

This was the third victor for MSSSPL in a row. MSSSPL has won this award for three consecutive years 2015, 2016 & 2017.

The victory projects our consistent performance in Energy Reduction & utilization of Renewable Energy. This reflects our strong team work for Energy Conservation. We will continue our Journey towards excellence in Energy Management.

**-Mr. Satyajeet Kumar  
Electrical Department**

**TMW Audit at MSSSPL**

TMW is our groups business excellence model.

This model guides us for systematic use of Quality Management principles , techniques and tools in managing all processes and operations of the company. An annual assessment is carried out every year by the experienced assessors. Equal emphasis is given to process and result during the assessment. This year was our cycle 9 assessment which was done in the month of August 17. Results of assessments are expected in due course of time. We have a catalyst representing various departments of the company. . **Catalyst play a major role in sensitization of TMW and employee involvement in improvement activities like kaizens , suggestions and active participation in implementation of DWM effectively .**

DMW and PDCA are the tools which help us in our

journey of TQM in business processes and management processes. DWM is a tool or the way of doing work to implement / practice management strategy into action so as to achieve the planned outcome. Religious practice of these will help us to sustain the current level of achieved performance and continual improvement.



*"Alone we can do so little, Together we can do so much "*

Can we ?

*"Yes - We can"*

**-Mr. Rajashekhar Gokavi  
Business Excellence Cell**

**Aspect :Material Resource Intensity and Recycled Inputs**

Resource intensity and recycle inputs is a key aspect of our sustainability drive in MSSSPL. Scarcity is an economic reality of 21<sup>st</sup> century and increasing scarcity are consideration of how efficiently we use and reuse the materials available to us. So resource efficiency is one of the most important challenge faced by the global community today. For us we have taken it as high priority of in company’s business strategy.

The road map provides a frame work explaining how the policies, actions and performance work together to move towards this vision. The focus area is to look for transformational ways to intensify and achieve the same or better outcome using fewer resources. This is a part of our day to day activity & it helps us reduce the intensity of materials by optimisation.

The Aspect Vision is linked to MSSSPL vision: Brand image–admiration, reduction in material intensity to reduce cost : process and product yield, improvement in product quality in terms of lower internal rejection, strengthening internal process and controls, improve SOPs, enhance employee involvement. The project under this aspect is linked with SDG-goal no.12 (Responsible production and consumption)

***MSSSPL has set an ambitious goals to enhance consumption of recycle scrap by optimisation of charge mix and stride to improve product yield by improving the process.***

Process Improvement:-

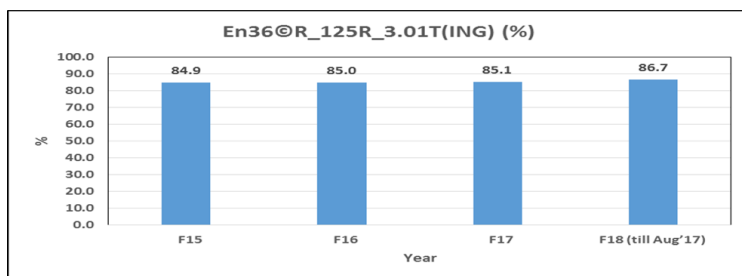
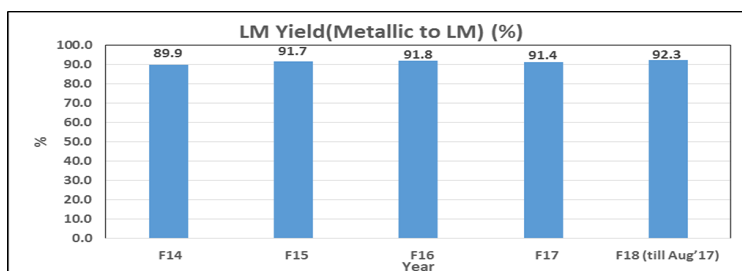
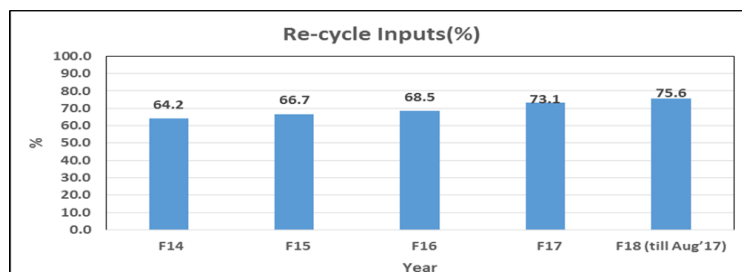
1. Optimization of scrap mix to enhance a better LM yield (metallic to LM) .
2. Maximising use of recycle scrap in the charge mix to enable us to save and conserve significant raw materials and divert valuable materials from going to landfills.
3. Study of ingot weight and made correction in the system.
4. Scale loss study in oxy-fuel (2.4%) and non oxy-fuel (3.5%) in chamber furnace and standardised.
5. Use of flexible hot-tops to reduce rejection in downstream processes.
6. CC-Bloom length optimisation to avoid loss in multiple length requirement in product.
7. Alternate way of thinking to increase product yields e.g. products in En36C(R)\_125R, SAE4330V\_320R, AISI 1541\_100D, En19B\_95D, Tower forging to machining by re-designing ring part IR/OR-563739.
8. Tracking and monitoring all the completed cast heats with respect to product yield and taking counter measures against abnormality.

9. Horizontal deployment of flexible hot-tops in other directly rolled RCS products

Following is the five year road map –

	F18	F19	F20	F21	F22
Internal Rejection (%)	1.5	1.4	1.3	1.2	1
Recycle Inputs (%)	75	75.2	75.3	75.4	75.5
Product Yield(%) En36c®_125R	86.5	86.5	87	87	87

MSSSPL Journey so far-



The journey of sustainability is set in and the need of the hour is to accept this challenge and make serious efforts to fulfil individual obligation. While there may be no easy solutions to complex crises such as prudent utilisation of resources, there is always something each one can do to make the difference. The solution lies in awareness and positive action on our daily work areas. Innovative and firm steps taken by diligence can certainly yield result.



**-Mr. Umakanta Padhee**  
**Quality Assurance Department**



**Aspect : Sustainable Supply Chain**

We at Mahindra Sanyo Special Steel Private Ltd. are committed to excel in our performance with respect to Sustainable Development of our own Business, the Planet & its People. We ensure that our suppliers are totally engaged with us in this endeavor through the Sustainable Supply Chain Management initiatives in the environmental, social and ethical dimensions. We at MSSSPL envision a supply chain that profitably yields high-quality, safe products without supply interruption while creating a net benefit by improving societal, environmental and economic outcomes. **We have set aspect vision to be achieved by 2022 : to reduce Scope-1 emission by 10%, Scope-2 emission by 5% & Scope-3 emission by 5% across our supply chain, to reduce water consumption by 10% across our supply chain, collaborate to have environmentally and socially responsible suppliers.** Our vision is linked to MSSSPL vision to achieve brand image through admiration, being successful and social responsible . Our activities under the aspect have linkage to SDG 12 and SDG 13.

Action Plan:

- Mapping of key Tier 2 Suppliers
- Capacity building initiatives planned for tier-I suppliers (related to GHG auditing & Life cycle assessment).
- Risk & opportunity mapping for supply chain including climate risk
- Embed SSCM risk and opportunity in enterprise risk management .

Effort taken so far to achieve the set goals

- Knowledge sharing session on SDG for Suppliers / Service Providers – Organized & Un organized sector
- Develop - SSCM Policy , COC , SAQ
- Collection of Data from Suppliers on consumption of Energy, Water, Waste

- Suppliers Audits
- Joint Projects: Energy, Water, Recycle of packing material i.e. HDPE Jumbo bags, Plantation,
- Risk Mapping of Suppliers, Climate Change



MSSSPL Journey so far since 2014

Year	Achievements / Activities
2014	Session by TRUCOST -Natural Capital Valuation
2014	Session by CRB-SHIFT & Ms. Caroline Resse -Human rights issue
2014	Engagement with British Standards Institute (BSI) -SAQ
2014	Engagement with Services N solution – Un organized sector
2014	MSSSPLs interaction with Marjan DeBock Smith - A session on conducting Social Compliance
2014	BS 8903 auditor training
2014	Supplier audit -34 Suppliers done
2014	Supplier session by PRe International - session on Environmental life cycle assessment as well as gave a brief insight into the SLCA methodology
2015	Collection of BLD,SAQ,COC
2015	Suppliers Audit
2015	Supplier Rating -- Sustainability Parameter weightage 5%
2015	Sustainable Suppliers --Award
2016	Supplier Satisfaction Survey
2016	Supplier Risk Mapping --- In process
2016	Suppliers audit - 6 Suppliers audit done
2016	Rating on sustainability parameters during vendor selection

**-Mr. Sandesh Sonawane**  
**Purchase Department**

**Quiz**

Be the first one to SMS the right answer to 7722029050 & win exciting prize)

**Question: What does the Kyoto agreement look at?**

- A) Nuclear waste
- B) Climate change
- C) Rising sea levels
- D) Access to healthcare



**Shashwat Quiz Winner (Issue :August 2017)**  
**Jayram Ramayane**



**Aspect : Materiality Test & Stakeholder Engagement**

Materiality Assessment is an exercise which is conducted to gather the views of important stakeholders regarding social, environmental and governance issues. This information is further used to report on overall company strategy, and risk and opportunity management.

*We aim to foster positive relationships between the company and its stakeholders through two-way communication to ensure that our understanding of material issues are in line with theirs.*

The Materiality Assessment process involves the following steps –

- Stakeholder identification
- Stakeholder prioritization and engagement
- Risk identification
- Material topic mapping and ranking as per their impact on business and stakeholders in a matrix. This map is verified and approved by senior management.
- Creation of action plans to mitigate risk and leverage opportunities

Materiality topics are selected by studying regulatory, reputational and stakeholder issues taken up by our peer and sector companies, and global standards like GRI and SASB. In addition we use the tool Datamaran by eRevalue to study emerging economic, environmental, social, and corporate governance risks. The tool allows us to gain insights into issues publicly disclosed by over 7,000 companies worldwide. Following this we create a stakeholder engagement plan that utilizes various channels to engage our stakeholders. These internal and external stakeholder groups include employees, customers, investors, community groups, banks, schools, government agencies, peer industries and NGOs. This helps us to identify, rank and map the issues which are most material in terms of importance and impact. To further strengthen our value chain, we will engage our Tier I and Tier II suppliers to create awareness on Sustainability.



**-Ms. Ipshita Rawat**  
*Business Excellence Cell*

**MSSSPL's Collaborations**

A successful sustainable development agenda requires partnerships between governments, the private sector and civil society. These inclusive partnerships built upon principles and values, a shared vision, and shared goals that place people and the planet at the center, are needed at the global, regional, national and local level. At Mahindra Sanyo we have undertaken various collaborative projects which are linked to SDG 17 (Strengthen the means of implementation and revitalize the global partnership for sustainable development) and these collaboration help to strengthen other SDG pillars. We are founder member of 'India GHG Programme' as by WRI-India, CII & TERI. We had participated in C4C Business Forum during COP-19. We have collaborated with Aqueduct India initia-

tive to mapping water risk and source vulnerability. Our journey in the area of social life cycle assessment was presented in Harvard School of Business. We are also a part of Product Social Impact Assessment global working group. We are advisory board members of Alliance for integrity and steel stewardship council-Responsible Steel. **MSSSPL became the 1<sup>st</sup> steel company from India to sign SBT Commitment in March 2017.** We are member of WRI carbon market simulation initiative. We firmly believe that our partnership philosophy will provide us with a distinct competitive advantage in the marketplace.



**-Ms. Sunetra Rane**  
*Business Excellence Cell*

**Sustainability at home**

Sustainability creates and maintains the conditions under which humans & nature can exist in productive harmony. MSSSPL is situated in a valley, surrounded by hills hence there is no free flow of air, it leads to lack of Oxygen. There is almost no neem tree, except one near to Devi Mandir, in and around MSSSPL campus of 160 Acres. Last three years I am struggling to grow one neem tree in MSSSPL colony. Neem Tree is a tree which gives us oxygen 24X7. Usually plants perform photosynthesis during day time in presence of sunlight. i.e. they absorb solar energy and release oxygen. But there are few plants like Tulsi, Neem & Peepal can release oxygen even after sunset. This fact encouraged me to grow at least one neem tree and I planted one in front of MSSSPL hostel area. It grew well almost reached a height of 6 feet. As neem has religious value, people worship it and offer turmeric & sweets to the tree. One fine day similar had happened, the sweets kept at the bottom portion of the neem tree were eaten by stray dogs and during eating the dogs damaged the bottom portion of the tree. In spite of my countless efforts I could not save that tree. To my surprise after some days, I saw one small stem growing from the root. So I fenced



the bottom portion of the neem tree. But before it could branch out properly someone broke the tree. So I requested our security guards to keep a near watch. Now the neem tree is more the 7 feet high. By taking this as an example our security guards started growing Neem and Peepal trees near the hostel fencing area.

**Sustainability is not only about growing trees but sustainability in behavior.** When I was young we had big trees surrounding our house which had lots of squirrel, usually these baby squirrels often used to fall on the ground from the trees. Being small they were unable to climb back. So we used to nourish them till the time they don't grow old enough to climb back. As a child I was always told, you nourish a squirrel or a sparrow one day they will leave for their home but nourish a tree and all of these would come back to their home tree.

I firmly believe in following sustainable ways in my lifestyle. And also to create awareness through various messages on social media like WhatsApp. I try my level best to support Mahindra ESOPS initiatives and urge other colleagues to do the same.



**-Mr. V S Ananthan**  
*Finance Department*





**Theme Based Month: Employee Hygiene & Health**

It is widely known that being in work is good for people’s health and wellbeing, but it’s increasingly being recognized that a healthy workforce is beneficial to employers too. In this modern era with the emergence of more inventions and industrializations, there has been a significant rise in germs, diseases, and resultant deaths. That is why cleanliness and hygiene at workplace also plays a very important role. Prime Minister Narendra Modi, in India, has also started a drive called ‘Swachata Abhiyan’, which revolves around the idea of cleanliness and hygiene.

**To create awareness regarding health and hygiene , we celebrated “Employee Hygiene & Health” as theme based month in MSSSPL on 28<sup>th</sup> August to 27<sup>th</sup> September 2017. Under this theme based month we undertook various awareness programs like training, audit, medical camp etc.**

Trainings like Yoga, First Aid, Silicosis Awareness, WASH, Obesity & its Prevention were conducted by internal and external faculty members. Chalta Bolta was conducted in the organization where in the employees were asked questions related to hygiene and health. Employees who could answer right received prizes. Hygiene study was a part of the theme based month wherein a CFT was formed for auditing all washrooms in the plant. Furthermore the month was celebrated by inaugurating a software developed in house called “Online Medical System”. Also a budget was sanctioned for upgradation of medical equipment in dispensary and the equipment procurement is in process.

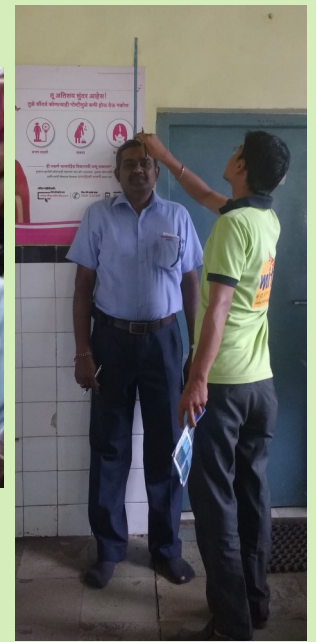
A medical checkup camp was organized in MSSSPL dispensary in association with MITR Hospital. Free health checkup for blood pressure, blood sugar test, body mass index calculation and consultation by doctor was provided in the medical camp.

Creating a positive, safe and healthy environment for employees, increases morale, improves employees’ work-life balance and, in turn, positively impact the business.

**Chalta Bolta**



**Medical Checkup Camp**



**Training**

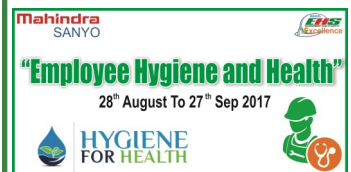
**Silicosis Awareness**



**First Aid Training**



**Yoga**



**-Dr. Anil Gaikwad**  
**EHS Department**