



### HINDUSTAN ZINC BECOMES RAJASTHAN'S FIRST CII-IGBC PLATINUM GREEN BUILDING

ASK FOR ZINC

MY SILVER GLITTERS MORE THAN GOLD...

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**Hindustan Zinc**

Corporate Communication Cell  
Yashad Bhawan, Udaipur - 313004  
E-mail : [pavan.kaushik@vedanta.co.in](mailto:pavan.kaushik@vedanta.co.in)  
[www.hzindia.com](http://www.hzindia.com)





*Hindustan Zinc - Yashad Bhawan runs on Solar Energy*



## HINDUSTAN ZINC BECOMES RAJASTHAN'S FIRST CII-IGBC **Platinum Green Building**

**Setting benchmark through policy of reduce, recycle, reuse and reclaim...**

*Taking cognizance of green initiatives by Hindustan Zinc, Confederation of Indian Industry (CII)-Indian Green Building Council (IGBC) awarded Platinum rating to the Company in a ceremony on January 10th, 2017 at Yashad Bhawan-Hindustan Zinc's Head Office-Udaipur. The award has been constituted by CII-IGBC and the Platinum rating is the highest rating which has been given to the Registered Office of Hindustan Zinc at Udaipur popularly known as Yashad (Zinc) Bhawan. Hindustan Zinc is one of the few CII-IGBC Platinum rated buildings in India, the first Company in Rajasthan and also setting the benchmark across other Vedanta companies in India.*

The CII-IGBC Platinum Green building certification was presented by Mr. K.S. Venkatagiri - Executive Director, CII Sohrabji Godrej Green Business Centre, Hyderabad and was received by Mr. Sunil Duggal – CEO, Hindustan Zinc.

On this occasion, Mr. Venkatagiri said, “Hindustan Zinc is the 1st building in Rajasthan to receive the Platinum Rating in existing building category and commended to achieve the same in the very 1st attempt. With about 3900 projects built over 3.59 billion sq ft, India's green building footprint has emerged as the second largest in the world. Hindustan Zinc has set an example for other industries to follow across India.”

While receiving the award, Mr. Duggal said, “Hindustan Zinc aims to make its buildings world class structures with zero carbon and zero waste with an objective to create more and more examples for others to follow and with that the management and the employees are committed for the same”.

CII-IGBC Green Existing Buildings O&M rating system addresses green features under the categories - Site & Facility Management, Water Efficiency, Energy Efficiency, Health & Comfort and Innovation. Corporate Office of HZL – 'Yashad Bhawan' was awarded with CII - IGBC (Indian Green Building Council) Platinum Rating under IGBC Green Existing Building Rating System. Several green features are implemented at HZL to enhance the building performance. The project has achieved energy savings by 27% and water use reduction by 37%. Fresh air ventilation system is integrated with active cooling system to improve indoor air quality, which would enhance occupant comfort. On-site renewable energy of 100





*Adiabatic Cooling Tower*



*Effluent Treatment Plant*



*Sewage Treatment Plant*

**Hindustan Zinc is the 1st building in Rajasthan to receive the Platinum Rating in existing building category. With about 3900 projects built over 3.59 billion sq ft, India's green building footprint has emerged as the second largest in the world.**

kWp is installed that would generate 1,62,000 units every year. Online energy monitoring system is installed to track the energy performance of the project and would help in identifying energy use by various building components such as lighting, UPS, air-conditioning, exterior lighting usages, etc. Air Handling Units (AHU) are integrated with Indoor Environmental Quality (IEQ) monitoring system to ensure continuous measurement of indoor environment thereby thermal comfort conditions. Similarly, Water Meters are also installed at several places to record water usages. This particular monitoring system would segregate energy usages and take appropriate action to further optimise energy performance.

HZL and IGBC would work together to further enhance the building performance and would play greater role in green building movement led by IGBC.

Hindustan Zinc has developed a lush green belt across its corporate office and residential colony. Hindustan Zinc has already installed solar roof top projects. Yashad Bhawan, Head Office of Hindustan Zinc too runs on Solar Power. The Company is also looking to develop solar energy projects in other parts in the State of Rajasthan. Hindustan Zinc has been working progressively towards setting-up 115 MW of solar energy projects with an investment of Rs. 630 crores. Hindustan Zinc also has over 1.3 million green plantations across its business locations.

The Company's mining and smelting operations are based on environment friendly technologies that led the plant to conserve water and energy. The operations are working on zero discharge principle and the Company is putting all efforts and research for gainful utilization of waste generated at its mines, smelters and power plants.

Hindustan Zinc has installed Adiabatic Cooling Towers (ACTs), air cooled heat exchangers for minimizing loss of water through evaporation. ACT installation has resulted in overall reduction in usage of water.



The Company has also installed Effluent Treatment Plant (ETP) for treating the 'Effluents' generated by different processes at smelters. The ETP with reverse osmosis plants installed at all smelting locations is resulting in reducing fresh water footprints of the Company. The treated effluents are recycled in the process ensuring 'Zero Discharge'.

Hindustan Zinc has commissioned Udaipur's first Sewage Treatment Plant (STP), with a capacity to treat 20 MLD of sewage, under the public-private-partnership model. This STP has effectively addressed the growing problem of pollution in Udaipur city's water bodies and contributed towards enhancing the overall aquatic life and aesthetic looks of lakes. Hindustan Zinc is now considering to enhance the capacity of current STP from 20 MLD to 40 MLD.

The Company also has green wind energy farms with 274 MW of power generation capacity located in Gujarat, Karnataka, Rajasthan, Tamil Nadu and Maharashtra.

# MY SILVER

## GLITTERS MORE THAN GOLD...

By : Pavan Kaushik & Devika Gupta

*While traveling from “Ask for Zinc - A to Zinc in our Lives”, there also falls one letter 'S', denoting Silver. A market that is dominated majorly by imports in India with Hindustan Zinc as the only primary Silver producer in India with over 95% market share in production.*

*Who knew, the lines that we see on the rear windscreen of cars, which are used for defrosting and defogging, are made from Silver. Surprisingly, in the United States, an alloy can only be called Silver if it has at least 90% Pure Silver. Who knew that Silver has its origin from a Sanskrit word, later derived from Latin ARGUNAS, meaning Shining.*

*Globally, the highest usage of Silver is Industrial Fabrication (51%), followed by Coins and Bars (25%), Jewellery (19%) and Silverware (5%). In India, the highest usage of Silver is Coins and Bars (37%), followed by Jewellery (30%), Silverware (17%) and Industrial Fabrication (16%).*

*Used in conjunction with almost every common industry, Silver makes itself practically indispensable.*

*Hindustan Zinc is aiming to produce 1000 tonnes of Silver from current level of about 500 tonnes annually. The company proposes to capture 10% of the Silver consumption market in India from the current level of just about 5%.*

### HISTORY SAYS IT ALL...

Silver is derived from the Anglo-Saxon word for Silver, 'Siofor,' which itself comes from ancient Germanic 'Silabar'. Silver's chemical symbol (Ag) is an abbreviation of the Latin word for Silver, 'Argentum'. The Latin word originates from Argunas, a Sanskrit word meaning shining.

One of the most precious ancient metals to have roots in Zinc, Silver is believed to be discovered around 5000 BC. While Silver objects have been found dating back before 4000 BC, mankind learned to separate Silver from Lead in 3000 BC. Around 700 B.C. early Mediterranean civilizations were using the brilliant white metal as currency.

Gold was considered to be the skin of the ancient Egyptian gods, but their bones were thought to be of Silver. In ancient Egypt, Silver was considered much more valuable than Gold. It was rare in

existence and on the list of valuables. Items of Silver were listed above those of Gold during the Old Kingdom.

The mining of Silver began between 5,000 and 6,000 years ago in Anatolia, or what is now Turkey. One of the first five metals to be discovered by the mankind. Over the next several centuries, the epicentre of Silver mining shifted from Greece to Spain to Germany to Eastern Europe.

### PARKES PROCESS - EXTRACTION OF SILVER FROM ZINC

There have been many ways of extraction of Silver through smelting process. One of them has been the Parkes Process, a pyro metallurgical industrial process for removing Silver from Lead during the production of bullion. It is an example of liquid-liquid extraction.

Parkes process (patented in 1850), involves adding Zinc to Lead and melting the two together. When stirred, the molten Zinc reacts and forms compounds with any Silver and Gold present in the Lead. These Zinc compounds are lighter than the Lead and, on cooling, form a crust that can be readily removed.

The process takes advantage of two liquid-state properties of Zinc - the First is that Zinc is immiscible





with Lead and the Second that Silver is 3000 times more soluble in Zinc than it is in Lead.

When Zinc is added to liquid Lead that contains Silver as a contaminant, the Silver preferentially migrates into the Zinc. Since Zinc is immiscible in Lead, it remains in a separate layer and is easily removed. The Zinc-Silver solution is then heated until the Zinc vaporizes, leaving nearly pure Silver. If Gold is present in the liquid Lead, it can also be removed and isolated by the same process.

## **SILVER ELECTROPLATING - A CHANGE IN ERA**

Silver's industrial role is much more than that of Gold and it is for this reason that a shortage of Silver has always had higher negative implications than there would be if there was a shortage of Gold.

Silver has the highest electrical conductivity amongst all the metals, which is why it is used as an alloyed form for electrical contacts. Satellites, lasers, high-tech weaponry, robotics, telecommunications, all need Silver. Conductors, contracts, switches and fuses need Silver too because of its non-corroding or non-overheating properties.

Engine bearings rely on Silver. The strongest bearing is made from steel and is electroplated with Silver. Silver's high melting point allows it to withstand the high temperature of engines and Silver's lubricant-like features help reduce friction between a ball bearing and its housing. Due to Silver's ability to absorb oxygen, it is being researched as a possible substitute for platinum to catalyse oxidation of matter collected in diesel engine filters. The other industrial applications of Silver electroplating include use in electrical parts and components like Copper connectors and Brass connectors.

## **SOLAR PANELS - THE POWER OF SUN, BROUGHT TO YOU BY SILVER**

If we add the amount of Solar Energy that is absorbed by the Earth's atmosphere, land and oceans every year, we end up with approximately 3,850,000 EJ (exajoules or  $10^{18}$  joules). To put it in more understandable terms, this amount of energy is equivalent to : 2.7 million earthquakes of the same size as the Tohoku earthquake in Japan (2011) - 40,000

times the total energy consumption in the United States - 8,000 times the total consumption in the whole world - 40% of the energy that is required to heat the entire volume of water we have on Earth by 1°Celsius. Every square meter of our planet receives around 1,366 watts of direct Solar radiation.

In America, one solar panel system is installed every four minutes. NASA is currently working on a Solar-powered aircraft.

Silver is a unique metal. It has the highest electrical and thermal conductivity of all metals, and it's the most reflective. These physical properties make Silver a highly valued industrial metal, especially when used in Solar cells.

Industry estimates that 40 tonnes of Silver is required to produce panels that would generate 1 GW of Solar Power. With this industry



(solar) virtually non-existent 10 years ago, Silver demand in the Solar industry is growing at a fast clip as an alternate form of Energy source in India.

Silver is a primary ingredient in photovoltaic cells, and 90% of crystalline Silicon photovoltaic cells use Silver paste. When sunlight hits the silicon cell it generates electrons. The Silver used in the cell works as a conductor to collect these electrons in order to form a useful electric current. The Silver then transports the electricity out of the cell so it can be used. Further, the conductive nature of Silver enhances the reflection of the sunlight to improve the Energy that is collected. Therefore, if it wasn't for Silver, Solar wouldn't be as efficient in turning sunlight into Energy.

India is currently 100% importer of Solar parts where Silver is used, the major countries from where it is being imported are China and Japan. Taking forward the vision of our Prime Minister to produce 50 GW of Solar Energy, and producing Solar parts, Indian consumption of Silver will be all set to increase by about 2000 tonnes. This would also create large ancillary industries and ample employment opportunities.

California is home to the largest Solar Power Plant in the world, located in the Mojave Desert. It spans 1,000 acres. California also dominates the Solar Power market, with a market share of 44% in 2015. California, Arizona, and North Carolina are the top three US states for Solar power, based on the amount of cumulative Solar electric capacity installed. There are now nine states in the U.S. where 100% of new electrical energy comes from Solar Power.

As it turns out, Solar Energy wouldn't work the same way if it wasn't for Silver.

## FORECAST - THE SILVER INSTITUTE

As per Indian Minerals Yearbook, published by Indian Bureau of Mines, India is the biggest importer and largest consumer of Silver in the world. Considering the current pattern of utilisation of Silver in the country and the anticipated increase in the GDP, the future demand for Silver is likely to exceed 6,000 tonnes per annum by 2017 as per the report of the Working Group on Mineral Exploration and Development (Other than Coal & Lignite) for the XII Five Year Plan (2012-2017). There is a need for intensifying the exploration for identification of more Silver bearing resources from which Silver is recovered as a by-product.

Silver growth is only likely to increase in India in the coming years since India is growing very aggressively in the areas of Make in India, Digital India and Solar Energy. As compared to the world, India has been slow towards utilization of silver for industrial usage with mere 16%, as compared to global usage of 51%. Though we are growing in terms of utilization of Silver in jewelry and Silver-ware, the real boost will come with Digital India and development of domestic solar energy market where Silver will be used.

## HEALTH - SILVER GLITTERS IN MY MEDICINE

Hippocrates, "The Father of Medicine", knew of Silver's healing and anti-disease properties. In World War I, before the widespread use of antibiotics, it was imperative on the battlefield. Silver foil was wrapped around wounds to help them heal.

Silver, a germicidal, kills bacteria and other lower organisms. Silver ions act as a catalyst by absorbing oxygen, which kills bacteria by interfering with their respiration. This antibiotic property, along with its non-toxicity, has given Silver an essential role in medicine for thousands of years.

In medicine, Silver is incorporated into wound dressings to treat external infections and also used as an antibiotic coating in medical devices. It is also used in some medical applications, such as urinary catheters (where tentative evidence indicates it reduces catheter-related urinary tract infections) and in endotracheal breathing tubes (where evidence suggests it reduces ventilator-associated pneumonia). The Silver ion ( $\text{Ag}^+$ ) is bio-active and in sufficient concentration readily kills bacteria in vitro. Silver is also used in other medical instruments and is a key part of the technology behind X-rays. It has also been used in eye drops and in dental hygiene to cure and prevent infection. Silver Sulfadiazine is especially useful for burn victims because it kills bacteria while also allowing the skin to regrow. Silver ion treatments can heal bone infections and allow regeneration of damaged tissue.

Today, the presence of antibiotic-resistant superbugs increases the demand for Silver in hospitals. Small amounts of Silver can coat hospital surfaces and medical equipment to prevent the spread of pathogens.

Silver and Silver nanoparticles are also used as an antimicrobial in a variety of industrial, healthcare, and domestic applications.

**Ask for ZINC**  
... A to Zinc in our lives...

# INNOVATORS *of* ZINC

'Innovators of Zinc', a unique initiative was conceptualized to bring out successful innovations of the employees who have gone out of the way to innovate and successfully execute ideas that have given cutting-edge to Hindustan Zinc in terms of volumes, environment & safety, process efficiency and cost savings and more importantly in reduction of man-machine collision.

During this initiative, Corporate Communication team visited various Units of Hindustan Zinc - Zinc Smelter Debari, Rampura Agucha Mines, Zawar Mines, Kayad Mine, Dariba Smelting Complex, Rajpura Dariba Mines and Chanderiya Smelting Complex to speak to these 'Innovators of Zinc'. During the visits, team has met over 190 young engineers and management graduates of 7 Units who very passionately shared their innovations and thought processes. It was amazing to listen to their stories that have impacted the cost of production and created bench-marks across other mining and metal companies. Corporate Communication team is executing this project in close association with HR Teams. The team has already circulated over 40 Case Studies till now.



## Discovering CWM-Series of lens with high metal content at Zawar...

Zawar Mines, one of the oldest mines, is all set for expansion and has planned to increase its production capacity in upcoming years. The goal is to produce 4 million tonnes of ore from all the four underground mines in Zawar.

Mochia, the oldest mine of Hindustan Zinc has planned to contribute 1.2 million tonnes in terms of ore production. To reduce the pressure of production, it was necessary for the mining team to keep two or three stopes ready all the time. For this, the team required sufficient Reserves and Resources to meet the planned production targets.

At West Mochia section, there exist a series of lenses called CWM-Series of lenses. These lenses possess significant potential but were completely untouched in terms of production. The intersections of these lenses were at greater distance from surface but remained unexplored from underground at shallow depths.

Mochia Geology Team comprising Mr. Ashutosh Pathak - In-charge, Geology Department-Mochia, Mr. Santosh Kumar Guin - Geologist, Mr. Prashant Biswas - Geologist and Mr. Sayandeep Chakraborty - Geologist decided to utilize this unexplored resource below the earth at shallow depth from surface and identified this area for exploratory drilling. The team drilled around 2800 metres of these lenses and added about 9 lakh tonnes of R&R with 5% Total Metal Content in just a year which is sufficient to cater to the needs of Zawar during development stages.

The team has planned further drilling and production from this area in the upcoming times which will divide the pressure of production from other stopes and help in meeting the goal of 4 million tonnes.



## Recovery of Zinc from slag in Lead Ausmelt Plant by optimizing Iron and Silica ratio in concentrate

*By using unused inventory and chemistry optimization, a team from Lead Ausmelt Plant recovered Zinc from waste slag and also in turn increased the lance life by 3 folds.*

The Ausmelt furnace at Chanderiya produces Lead bullion using Lead concentrate and is designed to handle 3.9% Zinc and 5% Graphitic Carbon. Higher Zinc in this concentrate results in higher Zinc percentage in slag and higher Graphitic Carbon results in poor separation of slag from Lead bullion. It also lowers the life of the lance.

Since September 2016, Ausmelt plant was getting Lead concentrate with 6-9% of Zinc and 5-16% of Graphitic Carbon which was more than the optimal percentage of Zinc and Graphitic Carbon.

A team led by Mr. Pranabesh Roy - SBU Head and comprising Mr. T.V.S.S. Nagaraju - AM, Process, Mr. Vinay Kanthalia - AM, Process, Mr. Shyam Goswami - Jr. Executive, Process, Mr. Vivek Menaria - Jr. Executive - Process, Mr. Sandeep Paliwal - AM, Mechanical and Mr. Anil Inani - AM, Instrumentation as team members took the task to overcome this challenge.

It was studied and observed that when the ratio between Iron to Silica ( $\text{Fe}/\text{SiO}_2$ ) is more than 0.9 and Zinc is above 20-22% it results in formation of severe build-up inside the furnace. Also, to control bath temperature due to high Graphitic Carbon, Ausmelt furnace needs at least 25-30 MT/day of extra secondary material. The only in-house secondary material available was ISF dross which contains 25-30% Zinc and 55-60% Lead.

The team studied the effect of Zinc and other impurities like Iron & Silica in slag. To maintain the ration of Iron to Silica ( $\text{Fe}/\text{SiO}_2$ ) below 0.9, Silica was added as flux which brought down the ratio to 0.6 to 0.7 and thus was able to handle 32-35% Zinc in slag.

The team was successful to use high Zinc and Graphitic Carbon concentrate and was able to consume 800-1000 MT per month of ISF dross inventory which otherwise was increasing every month. Optimization of this slag chemistry also helped to get highest lance life ever (6 batches per lance) for the month of December 2016 with record of 16 batches for a single lance. This increased the average life of lance by 3 times.

## Producing 200m<sup>3</sup> Water per day from unused Steam...

Hydro-I plant at Chanderiya Smelting Complex, commissioned in 2005 generated about 43-45 tonnes of steam from Waste Heat Recovery Boiler which is used to generate power in condensate type turbine of 9.40 MW. During this process, about 25 tonnes of steam gets condensed and remaining 20 tonnes is used for leaching process. Since leaching LP steam requirement is about 35 tonnes, the remaining 15 tonnes steam needs to be taken from CPP.

To reduce the cost of steam from CPP, in 2012 condensate type turbine was replaced by 4.3 MW back pressure type turbines. Due to this, the excess steam of 6-8 tonnes/hr started venting off through final vent. This contributed to water loss of about 150 m<sup>3</sup>/day.

A team comprising Mr. Deepak Jain - AM, O&M, Mr. Kailash Chandra Choubisa - AM, E&I, Mr. Sunil Dutta - Executive, O&M, Mr. P.C. Kumawat - AM, O&M, Mr. Bhagwan Lal Dhakar - Executive, O&M of Unit-II under guidance of Mr Rajesh Luhadia - Unit Head, Unit-2 brain-stormed for utilization of this vent steam as part of water conservation project.

The team came up with an innovative idea to utilize the available spent heat exchanger to arrest the unutilized 6-8 tonnes of vent steam.

A condensing system was connected before the final vent to convert the excess steam into condensate water and recycled the same into the boiler circuit. Due to additional in-built capacity of condensing system, vent steam of Hydro-2 Roaster could also be condensed with the same system. This lead to water recovery of more than 200m<sup>3</sup>/day against target of 130m<sup>3</sup>/day from unused steam.

*We all have Zinc in our Lives...*

# Who Stole My HAPPINESS...



By : Pavan Kaushik

When I was in school, I had seen my father getting his life-insurance done. Little did I know about the meaning of life-insurance. I only knew there is a yearly instalment that my father is required to pay. I often asked him and his reply was not more than a smile...

I only understood it when I myself became a father. The risk cover that is important to keep my family financially safe and sound, is the meaning of life-insurance. How much important this decision was of my father I could realize only when his shoes started fitting me. I never understood why my parents kept small supporters beside me, when I was still to walk, only to protect me from falling from the bed and getting hurt. I only understood it when I myself started doing the same for my children.

We are very protective of our family, but we become ignorant or indifferent as we grow old or our children grow old. We calculate the risk of life but we never calculate the value of being alive. Alive, for the sake of our own-self and for the well-being of our families...

One day, a young boy was playing with a sharp knife and his father kept telling him not to do so. The stubbornness of the child made him continue with his act. His father warned him that if his finger gets cut or he gets hurt, it will be very painful. The boy was confident of managing his act.

The father for once decided to let the learning be through experience this time. Suddenly, the knife fell on his feet and as expected blood started coming and the child started crying profusely. His father rushed towards him and also the mother. But both stopped after walking few steps. They knew the child was crying but was safe. The learning was happening through his experience this time. The child was feeling the pain and was asking for help and promised not to repeat it in the future. Why do we often want to learn only through our own experiences, why not with experiences of others?

Why do we feel that safety of others is our responsibility, when they themselves do not consider it to be their own responsibility? Why do we tend to learn only by doing mistakes ourselves, when there is enough scope of getting hurt by mistakes of others?

Many questions, but reply seems to be just One.. Be Safe for your Own-Self and for your Family..

Safety is not just compliance or a fear or adherence; it is more to be understood as a practice and as a philosophy. All of us have watched our mother playing with fire while making food for us. Many times she must have burnt her fingers. But have you ever tried putting your fingers on hot-plate. No.. We know the outcome would be evident.



*" When I  
started  
introspecting  
myself,  
I stopped  
judging others... "*

Pavan Kaushik

How much scared are we when our children do not reach home after school on time. We keep peeping from the window to assess every second of delay. We often complain schools for not informing about the delays in school buses. We are scared of any untoward incident. Imagine, when we the bread-earner of the family, fail to turn up to our homes on time, or at all? What our families go through? What thoughts they would have in their minds?

We tend to advise our children to wear helmet, not to sit with a friend who does rash-driving. But when it comes to our own-self, we only tend to be liberal on our own rules. We may find many reasons to comment on how people drive, but often ignore our own families views and requests on how we ourselves drive.

For us, Rules are meant to be Broken.

Accidents or incidents do not come with an appointment, they are always without invitation.. But still preventions always work better than cure.

Let us assess where we are going wrong and what needs to be corrected, with a positive frame of mind.

I am clear on my part.. I don't want my safety to become someone else's responsibility, do you, when I know I can handle myself...





Hind Zinc School, Chanderiya



Sindesar Khurd Mine



Rajpura Dariba Mine



Zinc Smelter Debari



Chanderiya Smelting Complex



Rampura Agucha Mines



Zawar Mines

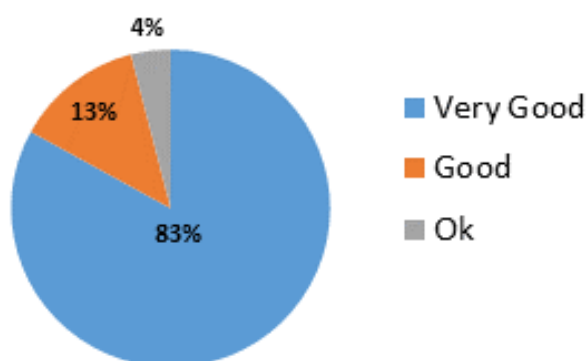
A unique initiative - "BEING SAFE" is to bring in a sense of safety as responsibility towards employees, particularly in contract employees/families/children. Corporate Communication team has made 11 visits in Units (except Pant Nagar) along with Zinc School and has interacted with about 1500 employees/families/children overall. 4 films have been made involving our own employees and their families to focus on safety. Meditation sessions are organized post the screening of films to understand what goes inside their minds post such incidents. Along with the Safety messages and movie screening, live case studies and events are shared with the employees.

A direct on-the-spot feedback was taken from the employees which is found to be very encouraging. Many of the employees share their personal experiences beyond the boundaries of the Plant.

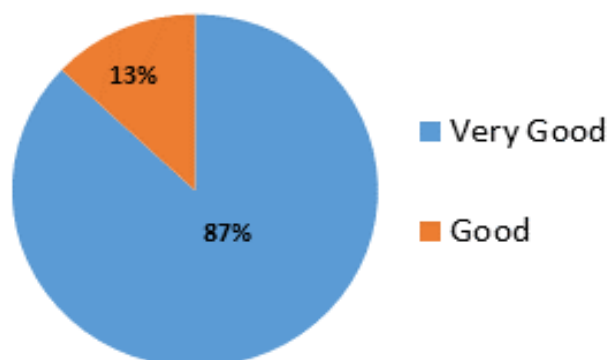
About 87% of employees found this informal interaction more impactful and more connecting to them. Specifically made Safety films were also appreciated by about 86% people and about 83% employees backed the essence of Safety Rules.

'Being Safe' has certainly strengthened the culture of belongingness within Hindustan Zinc. We know it is a journey that needs to be continued to achieve Zero Harm in the organization...

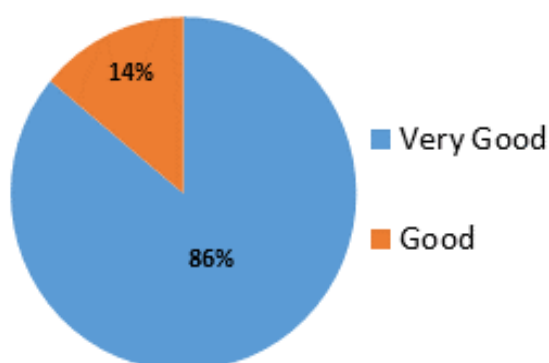
### Feedback on Safety Rules



### Feedback on Safety Workshop



### Feedback on Safety Films





## हिन्दुस्तान ज़िंक ने मनाया 51वाँ स्थापना दिवस



हिन्दुस्तान ज़िंक का 10 जनवरी, 2017 को '51वाँ स्थापना दिवस समारोह' ज़िंक के प्रत्येक कर्मचारी के मन में उमंग और तरंग के साथ एक अनूठी याद और प्रेरणा जगा गया। इस कार्यक्रम की खासियत थी विशेष योग्यजन बच्चों की अविस्मरणीय प्रस्तुति।

हिन्दुस्तान ज़िंक के स्थापना दिवस समारोह के अवसर पर यशद भवन के सभागार में आयोजित कार्यक्रम में बधिर बाल कल्याण विकास समिति भीलवाड़ा, विकलांग कल्याण समिति उदयपुर, प्राच्य शोधपीठ प्रयास उदयपुर एवं राजकीय प्रज्ञा चक्षु सीनियर सैकण्डरी विद्यालय उदयपुर के बालक बालिकाओं की प्रस्तुतियों ने समारोह को अद्भुत और ऊर्जावान कर दिया।

इस समारोह में विशिष्ट अतिथि ज़िला कलेक्टर – श्री रोहित गुप्ता ने हिन्दुस्तान ज़िंक को 51वें स्थापना दिवस पर शुभकामनाएं दी। इस अवसर पर हिन्दुस्तान ज़िंक के मुख्य कार्यकारी अधिकारी सुनील दुग्गल ने कहा कि स्थापना दिवस समारोह के अवसर पर विशेष योग्यजनों के रूप में ईश्वर से साक्षात्कार जैसा सुखद अनुभव है। उन्होंने कहा कि हम सभी को मिलकर विशेष योग्यजनों को समाज की मुख्यधारा से जोड़ने के लिये आगे आने की आवश्यकता है। श्री दुग्गल ने आह्वान किया कि प्रत्येक व्यक्ति इनके लिये समय निकाल कर इन्हें समाज का अभिन्न हिस्सा बनाने में अहम भूमिका निभाएं।

इससे पूर्व विशेष योग्य जन बच्चों ने कार्यक्रम में गीत, देशभक्ति गीत, फिल्मी गीतों 'तारे जमीं पर, जय हो' पर नृत्य के साथ ही राष्ट्र चेतना, स्वच्छ भारत मिशन, पानी बचाओं जैसे विषयों पर अपनी प्रस्तुति दी। मूक बधिर और विशेष योग्य बालक-बालिकाओं ने नाटिका प्लांटेशन वीक वर्सेज प्लांटेशन वीक के माध्यम से वृक्षारोपण एवं वृक्ष बचाने का संदेश दिया, वहीं डस्ट फ्री डस्टबीन नाटिका के माध्यम से स्वच्छता के प्रति जिम्मेदार नागरिकता का बोध कराया। कार्यक्रम के मध्य मनमौजी विशेष योग्यजनों ने भोजन पूर्व हाथ धोने एवं स्वच्छता का संदेश दिया। कार्यक्रम में सभी प्रस्तुतियों की ऑडिटोरियम में मौजूद हर एक व्यक्ति ने तालियों की गड़गड़ाहट और विशेष योग्यजनों को हाथ हिला कर अभिवादन से उत्साह वर्धन किया। कार्यक्रम में विशेष योग्यजन जहां उत्साहवर्धन से खुश नज़र आये तो मौजूद हर व्यक्ति विशेष प्रस्तुति से अभिभूत नज़र आया।

कार्यक्रम में हिन्दुस्तान ज़िंक के मुख्य प्रचालन अधिकारी स्मेल्टर्स विकास शर्मा ने हिन्दुस्तान ज़िंक के इतिहास के बारे में विस्तार से अवगत कराया। इस अवसर पर हिन्दुस्तान ज़िंक के चंदेरिया लेड ज़िंक स्मेल्टर की सुरक्षा विभाग की टीम ने "चंदेरिया के शौले" नामक सुरक्षा नाटिका से सभी को कार्यस्थल पर सभी को सुरक्षित कार्यप्रणाली पीटीडब्ल्यू के बारे में अवगत कराया। कार्यक्रम में सभी को सुरक्षा की शपथ दिलायी गयी।

इस अवसर पर युवाओं में प्रतिभा कौशल विकास कार्यक्रम के नाम 'युवांतरण' के लिये हिन्दुस्तान ज़िंक कायड़ माईन के कर्मचारी सुशान्त कुमार एवं विशेष योग्यजन बच्चों के लिये चलाए जा रहे अभियान के नाम "जीवन तरंग ज़िंक के संग" के लिये ज़िंक स्मेल्टर देबारी के कर्मचारी मनीष वैष्णव को अतिथियों ने सम्मानित किया।





**H**industan Zinc is committed for the empowerment of the women in its community as well as in its workforce. In its continuous journey to strengthen women employees, the "International Women's Day" was celebrated with great enthusiasm on 8th March 2017 across the locations of HZL.

### Head Office Udaipur

International Women's Day was celebrated with great zeal at the Head Office. The event was graced by the presence of the CFO and the Head-HR of Hindustan Zinc. The Head-HR reaffirmed the commitment of raising the diversity from 12% to 30% in the coming years. The CFO also shared his views on the important role a woman plays whether it is at work or at home. It was then followed by two inspiring stories of Ms. Shama Jain and Ms. Rizwana Sultan. It was highly motivating.

We had a cake cutting ceremony by all the females to mark the beginning of the celebration followed by a small get together of all the employees at Head Office. The employees also conveyed their wishes and messages on the signature poster.

### Sindesar Khurd Mines

The theme for this year's International Women's Day was 'Be Bold For Change'. So, for a change from regular office; our female executives took on the headlamps, boots and rescuers to have a sneak-peek into the depths of the mining industry. They did a comprehensive visit to experience the intricacies of underground operations at SK Mine.

### Zinc Smelter Debari

Zinc Smelter Debari celebrated the day with a get together of all female executives, non-executives and contract labour. The event began with cake cutting and motivational speeches by Dr. Fatma Liyaquat - HOD, Environment and Mr. Manoj Nashine - Unit Head.

### Pantnagar Metal Plant

The celebration at Pantnagar Metal Plant started with a surprise greeting by Unit Head with flower bouquets, chocolates and greeting cards to the female executives and employee's spouses. Visit to an Orphanage centre - 'Dushiya Baba Kaniya Chatrawas' was also planned where the PMP team distributed stationery and fruits.

### Rampura Agucha Mines

RAM organized a program for female executives at its Rampura Agucha Club, Community Centre. The event witnessed 20 ladies and with this various entertaining activities including Paper Dance, Musical Chair, Spoon Race & Balloon Race were performed by the participants. To mark the occasion, a Cake Cutting Ceremony was carried out by all females. The evening concluded with a feast, gifts and prizes. This event was considered an opportunity to deepen ties among the female executives and to understand each other very well.

### Chanderiya Smelting Complex

During Women's Day celebration on 8 March, 2017 at CSC, Lady police officials from Chanderiya, Sadar and Gangar Thana also participated and became part of it.







# HINDUSTAN ZINC RECOGNIZES SUPPLIERS FOR INNOVATION AND EXCELLENCE

The Company  
organizes its  
1st Supplier  
Alignment Meet  
to focus on  
Productivity,  
Quality,  
Reliability and  
Sustainability

**H**industan Zinc organized its 1st Supplier Alignment Meet on 1st February, 2017 at Udaipur where about 50 top suppliers across India & world participated. The meet emphasized on Vedanta's commitment to sustainable supply chain and suppliers' responsibility to ensure zero non-compliance.

During the meet, Hindustan Zinc shared its growth plans and set way forward goals with suppliers on Productivity, Quality, Reliability and Sustainability. The key message was Global Excellence through innovation and journey towards digitization of supply chain and rolled out projects for the future wherein plant Vehicle Management System will be fully automated through the use of automatic boom barriers, GPS enabled trucks and biometric gate entry system.

Top performing suppliers were also recognized across categories of supply chain alignment, operation excellence and innovation during the meet. With the global business environment expected to be unpredictable, such collaborative working with suppliers helps Hindustan Zinc to be well positioned to achieve excellence by adapting faster.

The participants were also briefed about Hindustan Zinc's key Community Service Initiatives - Nandghar (the modern day Anganwadis) & "Khushi" that aim towards education, health & nutrition of under-privileged children and women empowerment.

Hindustan Zinc's vision is to 'Be the world's largest and most admired Zinc - Lead & Silver Company' and believes that suppliers are key part of this excellence journey.

# Hindustan Zinc to invest Rs. 570 crore on 'Zinc Fumer Plant' to Boost Volumes



Chanderiya Smelting Complex

**H**industan Zinc, India's only and the world's leading zinc-lead-silver producer is all set to commission its first Zinc Fumer Plant to extract metals from the waste.

The most advanced global zinc production technology, hydro-metallurgical, generates Jarosite as part of the metallurgical process to produce zinc. Due to generation of Jarosite waste as part of the process, there has been a significant loss of metals like zinc, lead, copper, silver and other minor metals in the waste. Globally, the zinc-lead mining industries have been facing challenge towards recovery of metals from waste.

Industry sources estimate that Hindustan Zinc loses about 27,000 MT of metal per annum in this waste.

The most successful process for recovery of metals, without the formation of Jarosite, is Zinc Fumer Plant. Currently Zinc Fumer Plants are installed in few Chinese and Korean Zinc plants and are quite successful. Zinc Fumer Plant not only deviates from the process of formation of Jarosite, instead, recovers the metals from the waste.

CEO of Hindustan Zinc, Mr. Sunil Duggal informed that "Hindustan Zinc has placed formal order to China Non Ferrous Metal Industry's Foreign Engineering & Construction Co Ltd (NFC) and we are expecting to commission the first Zinc Fumer Plant by Middle of 2018. The first Zinc Fumer Plant is being commissioned by Hindustan Zinc at Chanderiya with a cost of Rs. 570 crore will improve recovery of Zinc from 96.8 % to 97.5% (from MIC) that would add about 3000 tonnes of Zinc from just one smelter per annum." While treating waste, the Zinc Fuming Plant will also produce a large quantity of slag that would be fully utilized by the cement industry."

The major recovery from Zinc Fumer Plant would be in Lead and Silver, an increase of Lead production by about 4700 tonnes and Silver by 33 tonnes per annum. The Chanderiya Hydro-II Smelter of Hindustan Zinc has a capacity to produce 210,000 tonnes of Zinc.

Hindustan Zinc has an overall current capacity to produce about 825,000 tonnes of Zinc, 180,000 tonnes of Lead and about 500 tonnes of Silver.

The Company has plans to put-up Zinc Fumer Plant at its other Smelting Complexes - at Hydro-I in Chanderiya and in Rajsamand at Dariba Smelting Complex. Once the commissioning is completed at all the three locations, the capacity of Zinc, Lead and Silver is likely to increase significantly, which would ultimately add to the overall volumes, revenue and profits of the Company.



## 5 Star Rating Mine Award - 2017 to Kayad Mine



Kayad Mine received 5 Star Rating Mine Award - 2017 under aegis of Indian Bureau of Mine, Ministry of Mine on 15th February, 2017 by Hon'ble Minister of State (IC) for Mines, Coal, Power and New & Renewable Energy, Govt. of India - Mr. Piyush Goyal. The award was received by Mr. Sunil Duggal - CEO, Hindustan Zinc and Mr. K. C. Meena - Unit Head, Kayad Mine during 2nd National Conclave on Mines and Minerals, New Delhi.

## चन्देरिया लेड ज़िंक स्मेल्टर केन्द्रीय उत्पाद शुल्क अवार्ड से सम्मानित



चन्देरिया लेड-ज़िंक स्मेल्टर को वित्तीय वर्ष 2015-16 के दौरान केन्द्रीय उत्पाद शुल्क एवं सेवाकर राजस्व संग्रहण में उत्कृष्ट योगदान के लिए 28 फरवरी 2017 को केन्द्रीय उत्पाद शुल्क दिवस 2017 के अवसर पर केन्द्रीय उत्पाद शुल्क अवार्ड से सम्मानित किया गया। यह सम्मान, समारोह के मुख्य अतिथि राजस्थान सरकार के माननीय उद्योग राज्य मंत्री - श्री राजपाल सिंह शेखावत ने उत्पाद शुल्क दिवस समारोह में प्रदान किया गया। यह पुरस्कार हिन्दुस्तान ज़िंक की ओर से कंपनी के हेड-अप्रत्यक्ष कर - श्री वी. वी. नन्दावत ने ग्रहण किया। इस अवसर पर मुख्य आयुक्त-उत्पाद शुल्क एवं सेवाकर, जयपुर - श्री एस. एस. लेंका भी उपस्थित रहे।

## CSC-CPP awarded for Best Fly Ash Utilization by Mission Energy Foundation

Chanderiya Smelting Complex - Captive Power Plant received first prize for Best Fly Ash Utilization in a ceremony organized in New Delhi by Mission Energy Foundation.

On behalf of Hindustan Zinc, Mr. Madan Singh Bhadoria - Unit Head, CPP - CSC received award from Dr. Srikanta K. Panigrahi - Director General, Carbon Minus India. Also present on dais were Mr. Manoj Kumar Gangeya - Director, MoEF, Mr. N.K. Gupta - Add. Director, CPCB, Mr. R.K. Verma - Chairperson, CEA and Mr. Sudhir Kumar - Advisor, NITI Aayog.



## Kayad Mine awarded during the Mines Environment & Mineral Conservation Week



Kayad Mine received first prize in categories like Afforestation, Environment Monitoring, Waste Dump Management, Systematic & Scientific Management, Publicity & Propaganda and Overall Performance under Mechanized Mines during the Mines and Environment Week 2016-17. The Mines and Environment Week from 8th – 15th January, 2017 saw participation of about 15 major mechanized mines under aegis of Indian Bureau of Mines. The final event was held on 21st January, 2017 and was graced by Chief Controller of Mines, IBM as Chief Guest and Senior Management of HZL.

## RDM awarded during the Mines Environment & Mineral Conservation Week

Rajpura Dariba Mines participated in 17th Mines Environment and Mineral Conservation Week 2016-17 and came first in various categories like Afforestation, Publicity and Propaganda, Reclamation & Rehabilitation, Mineral Conservation and Overall Performance and also received the second prize in Sustainable Development. The closing ceremony was held on 22nd January, 2017 wherein Rajpura Dariba Mines was felicitated with a trophy for its Overall Performance by Mr. R.K. Sinha - Controller, India Bureau of Mines, Nagpur.



## 30th Mines Safety Week at RAM

Rampura Agucha Open Cast Mine was awarded during 30th Mine Safety Week held on 13th January, 2017 at Jodhpur for Open Cast Working, Welfare Amenities & VTC, Explosive Transport & Storage, Haul Road & Dust Suppression, HEMM, Mine Lighting, Mine Plan & Record and Electrical Installation.

## DSC received Corporate Governance & Sustainability Vision Awards-2017



The Indian Chamber of Commerce (ICC) awarded Dariba Smelter Complex with Corporate Governance & Sustainability Vision Awards-2017. Dariba Smelting Complex also received the second prize in the 'Water Stewardship' category.

The award was received by Mr. Hemendra Sharma - AVP Finance, Mr. H.C. Mathur - Head Civil and Mr. Pradeep Singh - Head Environment from Mr. Anil Swarup - Secretary, Department of School Education & Literacy, Ministry of Human Resource Development, Government of India at a function held in New Delhi on 15th February, 2017. The selection committee for the award comprised eminent juries and Ernst & Young as the knowledge partner.

Mr. Hemendra Sharma was also a key speaker in India Corporate Governance & Sustainability Vision Summit- 2017 on 'Regulations for Corporate Governance in India'.



# Hindustan Zinc announces Special Dividend of Rs. 13,985 Crore

*Rs. 27,157 Crore dividend pay-out in 2016-17, highest ever in a financial year in Indian corporate history*

The Board of Directors of Hindustan Zinc has declared a special one-time interim dividend of 1375% i.e. Rs. 27.50 on every equity share of Rs. 2, entailing an outflow of Rs. 13,985 Crore including dividend distribution tax (DDT) on 22nd March, 2017. The record date for the dividend will be March 30, 2017.

Together with the Golden Jubilee dividend paid in April 2016 and the interim dividend paid in October 2016, the aggregate dividend being paid by Hindustan Zinc during this financial year will be Rs. 27,157 Crore including DDT, which is the largest dividend outflow by any company in India in a single financial year. Of this, Rs. 11,259 Crore will go to the Government.

Agnivesh Agarwal - Chairman, HZL said, "We are pleased to reward our shareholders with a special dividend, which reflects the Company's confidence in its continued robust performance and demonstrates our commitment towards delivering value for our shareholders. Since disinvestment by the Government in 2002, the cumulative dividends paid by the Company, including the current special dividend, is Rs. 37,517 Crore including dividend distribution tax."

## The Success That Was...

### Improvement of Roaster 5 Throughput and ever highest Zinc cathode production

Dariba Smelting Complex Zinc team has taken an initiative to improve availability and TPH of Roaster 5. Accordingly action plan was made for 11 days shutdown for Roaster 5. In this shutdown, apart from regular job of bed cleaning and boiler cleaning, damaged QT inlet duct was replaced in record time. Demister pads of DT tower, candle filters of IAT and FAT were changed and catalyst screening of two beds were carried out. As a debottlenecking project, Adiabatic Cooling Tower 41 & 51 were connected in series and portable cooling tower (Aggreko make) was installed to resolve high temperature issue of Gas cleaning & Acid Plant.

All these actions resulted in higher production of calcine in Roaster 5 which ensured sufficient calcine availability for Dariba Smelting Complex and Chanderiya Smelting Complex.

Further, there was a persisting problem of excess Mg & Mn in purified Zinc Sulphate solution. Leaching team has taken an FIP project to reduce Mn and Mg levels. Mg removal was augmented by taking unutilized RF filter presses. This resulted into Mg level reduction from 16.8 to 11.9 gpl.

A special drive was initiated for reduction of Mn by optimizing SK concentrate utilization, Cell slurry filtration and Potassium Permanganate treatment. This has resulted into Mn level reduction from 11.3 to 7.5 gpl. As a result, production increased for three consecutive months and is sustaining.

DSC-Zinc achieved ever highest average day cathode production of 667 tonnes per day in February, 2017 and cumulative 20,529 MT Zinc cathode in January, 2017. Previous cumulative Highest was 20,451 MT in December, 2016. Also throughput achieved was 37 TPH at Roaster 5 in February, 2017.



# Wheels on Dunes

Mr. Anil Agarwal – Chairman, Vedanta Group along with Mr. Tim Richards – Founder & CEO, Vue International, Mr. Bill Gammell – Founder, Cairn Energy Ltd., Mr. Kishore Biyani - Founder & CEO, Future Group and other family & friends traveled together on Cycle Trip – *Wheels on Dunes*, from Jodhpur to Jaisalmer. The trip was scheduled from 23rd – 27th February, 2017.









## Safety Town Hall Meeting at HZL



Safety Town Hall Meeting was organized on 4th March, 2017 wherein all Units along with marketing offices, including Head Office joined the live interaction. Mr. Sunil Duggal - CEO, HZL, Mr. Amitabh Gupta - CFO, HZL, Mr. Naveen Singhal - Director Projects and Mr. Laxman Shekhawat - COO Mines addressed about 2000 employees and contract workers and recently joined GETs. The Town Hall was conducted from Udaipur from the auditorium emphasizing on safety both on-site & off-site. The Town Hall also saw interactive session wherein several employees from each location asked questions and gave suggestions towards improving safety.

## Next Generation Technologies for Mining and Fuel Industries Conference attended by HZL

NxGnMiFu (Next Generation Technologies for Mining and Fuel Industries), an international conference was organized at New Delhi from 15th - 17th January, 2017. Mr. Rajeev Shrimali - Unit Head, RAM participated and presented the technical paper on 'An overview of exponential production enhancement by keeping pace with technology'. The conference was organized by CIMFR-CSIR at Vigyan Bhawan, New Delhi.



### Refresher Training & Practical Demonstration at ZSD

Refresher training & Practical Demonstration on Height Rescue was organized at Zinc Smelter Debari by M/s Karam Industries on 17th & 18th February, 2017.

## Safety Kiosk at CSC

Moving towards innovation & digitization in safety training, Kiosk System is installed in driver's lobby at material gate to attain driver's safety induction based on pre-defined safety module. Transport Drivers are trained with all necessary do's & don'ts of the plant to ensure that they work in safe and healthy manner inside plant premises. Touch screen interface simplifies the training process and is very user friendly. This kiosk solution acts as a virtual assistant for drivers training resulting in saving of man-hours & associated costs. With this technology advancement, we are able to conduct the induction of transport driver's in minutes and save manpower & time which was required to train these drivers.

## PUC Camp at RDC

Pollution Checking Camp was organized on 14th January, 2017 at Rajpura Dariba Complex intersection point, to check the pollution levels of various vehicles.





'National Road Safety Week' was celebrated at Hindustan Zinc from 11th – 17th January, 2017 across its locations. Various competitions like, poster making, poem & essay writing were conducted and the winners of competitions were awarded.

At Zawar Mines, training on Defensive Driving was given by Ashok Leyland Vehicle Driver Training Institute at VTC on 11th January, 2017 wherein 20 LMV drivers participated in the training.

At Kayad Mine, training on Defensive Driving was given by Ashok Leyland Vehicle Driver Training Institute at VTC on 16th January, 2017 wherein 82 employees participated in the training.

Road Safety training was organized on 14th January 2017 through Ashok Leyland Vehicle Driver Training Institute at Rampura Agucha Mines wherein 40 drivers participated in the session.

Road Safety training was delivered organized through Ashok Leyland Vehicle Driver Training Institute at Zinc Smelter Debari wherein 17 drivers participated in the session. Nukkad Natak was organized on Road Safety through M/s Vaaman Team at Zinc Smelter Debari.

Road Safety Week was celebrated from 11th - 17th January, 2017 at Rajpura Dariba Complex wherein VDSS Comprehensive Training was organized on 13th & 14th January, 2017. About 100 drivers were trained. The training was given by Mr. Deepak Patel (DuPont certified Trainer) and Mr. Abhimanyu Singh Ranawat (VDSS Champion-RDC). Bike Rally was held on the last day of National Road Safety Week in view of creating awareness in the nearby area of RDC.



No Vehicle Day was also observed at Zawar Mines when all the employees and contract employees restrained from using vehicles and walked on foot to office.

#### Training on First Aid at HZL

Training on First Aid and Trade Test Competition was conducted on 12th February, 2017 at Zawar Mines under the aegis of DGMS Udaipur region. Total 54 employees participated.

### Inauguration Function of Truck Parking at RDC

National Safety Week Celebration was inaugurated on 11th January, 2017 at Rajpura Dariba Complex. Mr. Vijay Goyal - Head Safety delivered welcome speech during the event. Chief Guest, Mr. Sawai Singh Bhati - Dy SP and Mr. Lal Singh Shaktawat - SHO Railmagra graced the event by their presence.

### Structure Stability Audit at Zawar Mines

Audit of Structure Stability was conducted at Zawar Mines from 14th - 20th February, 2017 by L&T Technical Services Mumbai.

## 40th Mines Safety Week Celebration at RDC and Zawar Mines



40th Mines Safety Week was celebrated at Rajpura Dariba Mine under the aegis of Directorate General of Mines Safety Udaipur Region. Employees and contract workers participated in Safety Week. Closing ceremony and prize distribution ceremony was on 24th February, 2017. Location Head - Mr. Mahesh Todkar was the Chief Guest for the function. Mr. Sanjay Khator - Unit Head, RDM, Mr. Rajendra Menaria - VP, DKMS, Mr. J.P. Gupta, Mr. I.P. Jain, Mr. Abhay Nath Chouhan and Mr. M. C. Pancholi shared the stage and awarded to the winner of different event and categories. Mr. Chattar Lal Mochi, Mr. Banchi Lal Sharma, Mr. Gaffar Mohd and Mr. Girdhari Lal Prajapat presented safety songs. At the

end of the function Mr. J. P. Gupta - Mill Head gave vote of thanks to the participants and volunteers.

Regional and Unit Level Mines Safety Week was celebrated at Zawar Mines from 20th - 25th February, 2017. Inauguration functions at Mines/Mill, safety speech, trade test competition, quiz competition, mines inspection, etc. were conducted during the week. Three safety videos to create awareness on Lock Out Tag Out, Permit to Work and Safety Interaction in UG mines were initiated. These videos will be part of induction as well as refresher training. During Mine Safety Week, Prize Distribution Ceremony was organized at Zawar Mines on 1st February, 2017. Also present were Senior Management along-with Representative from Zawar Mines Majdoor Sangh. In this event, winners of various programs such as quiz competition, essay competition, slogan competition, poster competition, trade test winners and best safety idea under suggestions, etc. got rewarded.

### Mock Drills at RAM, PMP & ZSD

#### Safety Perception Survey at HZL

Hindustan Zinc conducted its 2nd Employee Safety Perception Survey (SPS) during 2nd – 8th January, 2017 for assessing the perception of its employees towards safety after completion of three years of Aarohan journey and to measure the effectiveness of this journey. 99.9% employees completed the survey.

A Confined Space Drill was conducted at stream 2 Rampura Agucha Mines Mill on 4th February, 2017. During the Drill, a team consists of 7 members under leadership of Mr. Ankit Shringi conducted the rescue operation, 2 members entered confined space with breathing apparatus and other 5 persons deployed outside the confined space for lowering of stretcher and uplifting of injured person. This was the first confined space drill conducted, the rescue team was informed in advance and was available at confined space area. A Mock Drill was conducted at Rampura Agucha Mines VTC on 16th February, 2017 to demonstrate the skill achieved by rescue team members during their rescue training at Karam Industries, Noida. Rescue training expert Mr. Yudhishtar Mandal from KTC (Karam Training Center) were present during the Drill.

Mock drill was conducted on geo-technical instability at bottom of hang wall in Rampura Agucha Open Cast Mine on 14th February, 2017 by shift engineer and other two engineers creating a scenario to test emergency response to evacuate the pit bottom in case of the geo-technical instability in Hang Wall.

Mock Drill was conducted for Electric Shock to check the effectiveness on the emergency preparedness at Pantnagar Metal Plant in February, 2017.

Mock Drill was conducted on 28th February, 2017 at MCTP plant on scenario of burn injury due to Hot Slag at Zinc Smelter Debari. On completion of Mock Drill, a meeting was conducted with Operational Head & Eng. Services, where all positive points, observations and area of improvement were discussed.

### HEMM Parking at Kayad Mine

A Parking Yard for Heavy Earth Moving Machine was developed at Kayad Mine. This is used for parking of Dumper, Loader and other heavy equipment. The yard was designed with proper walk way and alarm system to avoid any accident. To avoid man-machine interaction at main haul road, a structural bridge for pedestrian is also constructed. The initiative was taken up by Mr. P.K. Bhatt - Manager, Civil along with designing team.

#### Fire and Ergonomics Audit at Head Office, Udaipur

Fire Audit was conducted for Head Office, Yashad Bhawan by M/s. Infobase Management Consultant Pvt. Ltd. in Q-4.





## Fire Fighting Demo at Zawar Mines

A practical demonstration on Water Mist Technology for Fire Fighting was given at Mill Plant of Zawar Mines on 10th January, 2017. During the event, an awareness session about basic Fire Fighting and using First Aid Fire Appliances was also organized.

## Rescue operations during Major Fire in a Chemical Factory (M/s. Deepa Chemicals & Scientific House)

On 23rd January, 2017, CSO - Zinc Smelter Debari (ZSD) received a call from district police authorities requesting for assistance in extinguishing major fire in a chemical factory located in Sukher industrial area, Udaipur. Information was shared with Unit Head and he directed to mobilize ZSD fire and rescue team along with safety officer and CSO to assist administration. Information was sought from police about the substance present at factory. Information revealed that presence of solvent and thinners at site, epoxy resin to be main substance. While on the way, MSDS for epoxy resin was downloaded and fire plan prepared to use foam for extinguishing fire. ZSD fire and rescue team reached site and started sprinkling foam water over fire. Fire was huge and there was huge stock of inflammable substance in the factory. There were regular explosion happening inside factory resulting into spread of fire from one storage area to another. Fire and rescue team from Rajpura Dariba Complex also reached at site and helped administration in fighting fire and search/rescue operation. Fire was extinguished completely with joint efforts of HZL team and Udaipur Nagar Nigam fire team. District collector, Deputy Chief Inspector of factories & Boiler, SP and other officials appreciated HZL team for their timely response and action.

### Safety Vision Workshop at HZL

Safety Vision Workshop was conducted by M/s DuPont for Senior Management on 19th January, 2017 at Head Office, Udaipur.



## International Conference on Innovation in Mining Technologies attended by HZL

Mr. Vikas Thakre - SBU (D&B) in Rampura Agucha Open Cast Mine participated in an International Conference on Innovation in Mining Technologies organized by Jaipur chapter of MEAI and presented a technical paper 'Use of technology in Open-pit Mine for sustainable enhancement of Mineral Exploitation'. The conference was held at Jaipur from 20th - 22nd January, 2017.

### News Digest...

- ◆ Automatic Truck Washing System was established near waste yard at Rampura Agucha Mines. Washing will start automatically, when the truck enters into the washing area, activated by optical sensor.
- ◆ Security team conducted Mock Drill on Theft at Kayad Mine which was monitored by Security Head and all the finding were briefed to the security team.
- ◆ New Manual Greasing System has been installed in Drill Jumbos for improving Pin Bush life and greasing compliance on site at Rampura Agucha Underground Mine.
- ◆ Safety online test on Rigging Safety and Refresher test of all standards conducted for all employees across HZL to increase awareness level. Around 2,200 employees participated.

## Training on Safe Rigging Operation at HZL



Training on Safe Rigging Operation was imparted to about 50 employees and contract workers at Zawar Mines by M/s Ability Consultant from 15th - 18th February, 2017.

Training on Safe Rigging Operation was imparted to more than 20 employees and contract workers at Zinc Smelter Debari by M/s Ability Consultant on 22nd & 23rd February, 2017.

Training on Safe Rigging Operation was imparted to 35 employees at Pantnagar Metal Plant by M/s Ability Consultant on 2nd & 3rd February, 2017.

Training on Safe Rigging Operation was imparted to about 15 employees at Kayad Mine by M/s Ability Consultant on 5th & 6th February, 2017.

Training on Safe Rigging Operation was imparted to about 25 employees at Rajpura Dariba Complex by M/s Ability Consultant in February, 2017.

Training on Rigging Safety was conducted by M/s Ability consultant at Rampura Agucha Mines from 24th - 31st January, 2017. About 85 employees and contract workers participated.



## Awareness Session on Scaffolding at RAM

To create more awareness and skills in scaffolding, a session was conducted by M/s Pentasafe from 4th - 6th January, 2017 at Rampura Agucha Mines. 30 contract workers participated in the training program.

## Employee of the Month at RDC

Employee of the Month scheme was organized at Rajpura Dariba Complex to motivate employees and recognize them for efforts taken in respective fields towards safety and productivity improvement initiatives in January, 2017.

These rewarded employees carried out a special task, made a significant contribution, found to be outstanding in his/her areas of work and credited with a performance which is easily visible to people working in that area.





Dariba Smelting Complex team surpassed the migration criteria and became an Advance Asset Optimization entity in January, 2017. The team was felicitated in presence of Mr. Laxman Shekhawat - COO Mines and Mr. Naveen C. Sharma - Head, Corporate AO.

Rampura Agucha Mines participated in AO Plus framework which was rolled out at Hindustan Zinc during the 'Orientation Workshop' on 7th February, 2017 at HO, Udaipur. Senior Management was involved in the workshop.

Reward ceremony conducted for the winners of Online AO quiz conducted to improve the awareness of AO among employees at Rajpura Dariba Complex.

#### Partner Workshop at RDC

An idea generation workshop was conducted with major partners to brainstorm on long term and short term objectives related to improving safety, quality, productivity, cost and morale at Rajpura Dariba Complex. Short term ideas came out of the workshop and implemented.

#### Training on Fire Fighting at RAM

Five classroom and practical training sessions were conducted in VTC on 8th, 14th, 16th, 18th and 24th February, 2017 to create awareness and use of fire fighting equipment at Rampura Agucha Mines. 70 employees, contract workers and 4 security guards were covered during the program.

#### Training on CWMS at Kayad Mine

A 2-days training session was conducted on 22nd & 23rd February, 2017 on Saviour modules at Kayad Mine. About 30 employees and HR representatives of contractor's team were covered.

#### Training on SAP based Contractor Material Entry System at RAM

As a part of implementing SAP based Contractor Material Entry System, a training was conducted for about 50 contract workers who are handling store for their respective firm by Mr. Puneet Bordia, Ms. Ruchika and Ms. Ramadevi Sangu on 27th February, 2017 at Rampura Agucha Mines.



#### Shramdan at RDC

As the part of National Safety Week, a campaign of housekeeping (Shramdan) was organized on 8th March, 2017 at Rajpura Dariba Complex.

## Town Hall Meeting at RAM & Kayad Mine

Town Hall Meeting at Rampura Agucha Open Cast Mine for Quarter-3 of FY-2017 was scheduled on 20th January, 2017. Around 100 employees of Rampura Agucha Open Cast Mine participated. The session started with the safety video on Safe Rigging which emphasized on safe practices of rigging operations. Mr. Vinod Kumar the Chairperson & Mines Manager shared his experience about hazard identification and good design during the planning stage helps in good production and safe working.



They presented an overview of Rampura Agucha Open Cast Mine progress, safety statistics, financial performance, performance of Mine & Mill operations results and the way forward for Q4 2016-17.



### PMS Workshop at RAM

A PMS workshop was conducted at Rampura Agucha Mines on 9th February, 2017 by Mr. Mohd. Faraz - Head Performance & Rewards, HZL in order to explain and address queries with respect to the changes made in current appraisal format.

In order to communicate the achievements of Quarter-3, way forward Q4 2016-17 and business plan of next FY 2017-18, a Town Hall Meeting for Rampura Agucha Underground Mine was conducted on 3rd January, 2017 at UGVTC Hall.

Around 100 employees of Rampura Agucha Underground Mine from A, B and General Shifts including key contract personnel attended the Town Hall Meet which was chaired by the Mr. Praveen Sharma - Unit Head in presence of Mr. Rajendra Prasad Dashora - Location Head, Mr. Arjit Nirwan - Head Projects RA UG.

A Town Hall Meeting for Q-3 was organized on 5th January, 2017 at Kayad Mine wherein financial and production performance along with initiative taken for Safety were presented. The team was appreciated for achievement of BP and was emphasized on consistent performance.

## Training on Safe Drill Machine Operation at RAM

A training session on Safe Drill Machine Operation for 10 selected HZL drill operators was organized from 21st - 28th February, 2017 in order to improve the skills in Compact Drill Operation at varying angle at Rampura Agucha Mines. The faculty of the program was Mr. M. Dhayanathan from M/s AICL.

### Training on Vehicle and Driver Safety at RAM

Vehicle and Driver Safety training and screening of e-learning video on driver safety was conducted for UIC-5 contract workers by Mr. Puneet Bordia on 21st February, 2017 at UG VTC Hall. 30 contract workers from various contractors attended the training session. During the training, live videos of road accidents were screened and employees were sensitized about road and driving safety.





### Mera Vichar at RDC

Mera Vichar is a kaizen scheme adopted at Rajpura Dariba Complex for contract workers where every idea registered under this scheme is rewarded. This is done with an intention to increase involvement of contract workers for continuous improvement.

### AECT Training at RAM

9 training sessions on AECT were conducted at Rampura Agucha Mines in January & February, 2017 to make employees aware about basics of workplace hazards & how employees can take action to reduce incidents, unsafe conditions & unsafe acts and their effects, causes & prevention. 105 & 115 employees participated respectively.

### Shabaash at RDC

With an objective to appreciate, reward and recognize the contract workers to deliver outstanding performance in the field of safety, an event called Shabaash was organized on 20th February, 2017 where selected members were invited for coffee with Unit Head at Rajpura Dariba Complex. There was a focused discussion on how to improve as well as sustain the safety culture at the unit followed by distribution of mementos.



### Training on General Electrical Safety Management at RAM

To aware all contract workers about electrical hazards, electrical safety & precaution five sessions conducted at Rampura Agucha Underground Mine in February, 2017, 170 employees participated in the session.

### Near Miss Reward at RDC

Near Miss reward distribution ceremony was organized for the employees at Rajpura Dariba Complex in last quarter. Reward distribution done for the employees who had submitted the ideas under Meri Soch scheme.

### News Digest...

- ◆ Ambulance Awareness Training was imparted to 1st batch of U/G by Mr. Ankit Shringi on 7th March, 2017 at Rampura Agucha Mines.
- ◆ A brainstorming session was conducted with cross functional team of Rampura Agucha Underground Mine which saw the participation of 30 managers, contractors and GETs. More than 150 ideas were generated and listed.
- ◆ To motivate the workforce and to achieve the monthly KPIs, 135 employees and contract workers were rewarded in February, 2017 in different categories under the banner of Lakshya 1.5.
- ◆ Training on Work at Height Rescue was conducted on 3rd February, 2017 in Mill Plant at Zawar Mines.

## उदयपुर में वेदान्ता हिन्दुस्तान ज़िंक के नंदघरों का उद्घाटन



राजस्थान सरकार की माननीय महिला एवं बाल विकास मंत्री – श्रीमती अनिता भदेल ने उदयपुर संभाग के दो नंदघरों का 17 जनवरी, 2017 को उद्घाटन किया। इस समारोह में हिन्दुस्तान ज़िंक के मुख्य कार्यकारी अधिकारी – श्री सुनील दुग्गल भी उपस्थित थे। भैसड़ाखुर्द और पाडाखादरी के नंदघरों में अब अन्य आंगनवाड़ी केन्द्रों की सुविधा के अलावा आधुनिक सुविधाएँ जैसे मनोरंजक शिक्षा हेतु टीवी, शुद्ध पेयजल के लिये आरओ, बिजली हेतु सोलर पैनल, खिलौने, शौचालय का निर्माण किया गया है। नंदघर परियोजना के अभियान में स्वयंसेवी संस्थान सेवा मंदिर हिन्दुस्तान ज़िंक की सहयोगी हैं।

वेदान्ता द्वारा केन्द्रीय महिला एवं बाल विकास मंत्रालय एवं राजस्थान सरकार के साथ मिलकर देशभर में 4000 आंगनवाड़ी केन्द्रों को नंदघर का रूप दिया जा रहा है। कार्यक्रम में मावली विधायक – श्री दलीचंद डांगी, जिला प्रमुख – श्री शांतिलाल मेघवाल, सरपंच – श्रीमती निर्मला नागदा, प्रधान – श्रीमत आस्मां खां, पंचायत समिति सदस्य – श्रीमती अल्का चौधरी, सीडीपीओ – सुश्री धर्मिष्ठा, सेवा मंदिर की निदेशक – श्रीमती प्रियंका सिंह, सीएसआर हेड – श्रीमती नीलिमा खेतान, हिन्दुस्तान ज़िंक देवारी के यूनिट हेड – श्री मनोज नशीन सहित ग्रामीण एवं ज़िंक के अधिकारी उपस्थित रहे।

### Fire Safety Equipment and First Aid Kit to Government Schools at Zawar Mines

Fire safety equipment, library racks and first aid kits were provided to 9 Government Schools by Zawar Mines team on 1st March, 2017 under Shiksha Sambal Project benefiting about 1200 students. Mr. P.S. Jaitawat - Location Head, Zawar Mines presented the kits to Government Secondary School, Newatalai along with Mrs. Geeta Devi Meena – Sarpanch in the presence of school staff and 150 students.

### Support to Schools at RAM & RDC

To provide the support for enhancing qualitative education in Government Schools, a science kit and library books in 7 Government Schools were distributed on 12th January, 2017.

Under Rural Sports and Cultural program, School Tournaments were supported by HZL organized in operational area. During this month, 5 Sports Tournaments were supported.

#### Celebration of Children's Day at Kayad Mine

Under the "Khushi" project, Children's Day was celebrated in 15 anganwadi centres where about 240 children participated.



### Artificial Insemination Program at RDC

Rajpura Dariba Complex team in collaboration with District Animal Husbandry Department is running Artificial Insemination program. 895 AI has been done during January & February, 2017.

### Safety Equipment Distribution in Schools at RAM

To encourage safety and its awareness in nearby schools, CSR team provided safety equipment in 7 Government Schools on 15th February, 2017. The key members involved in the event were resource person from Vidhya Bhawan Society & Administrative school staff and other CSR coordinators.





### Training on Pre-school Education at RAM

A training program was organized on Pre-School Education from 10th - 13th January, 2017 at Bhilwara to support and train the anganwadi staff for strengthening pre-school education of anganwadi children. Mrs. Savita from M/s Care India was trainer of the program.

### Coaching Classes for IIT Advance and Main Examination under Shiksha Sambal Project at Zawar Mines

Hindustan Zinc conducted Entrance Examination Level – I for qualifying in IIT coaching at Zawar Mines on 25th January, 2017 for about 465 enrolled students who belong to 10 Government Schools, situated at Tidi, Zawar, Singhatwara, Newatalai, Kanpur, Padla, Chanawada villages. 96 students qualified from Zawar Mines. These 96 students reappeared in level –II Entrance test for IIT coaching conducted by Resonance Coaching Institute team on 10th February, 2017.

### Construction of Boundary Wall in Govt. Sr. Sec. School at Zawar Mines

Zawar Mines team initiated the construction of boundary wall at Government Sr. Secondary School, Singhatwara. On 10th February, 2017, Mr. P.S. Jaitawat - Zawar Mines, Location Head along with Mr. Mohan Kharadi - Pradhan, Sarada Panchayat Samiti, Mrs. Aruna Cheeta - Head CSR, Zawar Mines, Mr. Shiv Singh Sisodiya - SMC Member, Mr. M.M. Krishna - Head Civil, Zawar Mines kept the Foundation of Boundary wall where 400 students witnessed the event.

Total 660 students enrolled got benefited by the construction. The school would be approved for making centre for Board Examination in the area only after completion of boundary wall to ensure Safety of enrolled students and smooth movement of other board students from tribal community.

### Sakhi Program at RAM

Orientation program for Self Help Group women was conducted on 21st February, 2017 at Rampura and Kothiya villages by the staff of Manjari Foundation. 65 women were covered under this program.

### Farmers Training on GOPAALAN at Zawar Mines

35 Farmers from Zawar Mines participated in Residential Training on Livestock Management conducted from 27th February - 1st March, 2017 by department of Animal Husbandry, Udaipur.

### Stationary Distribution at RDC

Under Siksha Sambal Project running in partnership with Vidya Bhawan Society, Medical First Aid Boxes and Geometric Boxes for Maths subject have been distributed in 8 Government Secondary and Sr. Secondary Schools on 31st January, 2017.



### Bal-Jhankar at Zawar Mines

Bal-Jhankar program was conducted for children of "Khushi" Child Care Centres at Sr. Secondary School Singhatwara on 13th January, 2017 by Zawar Mines team. Total 90 enrolled children participated wherein they presented cultural program during the event.

## Vaccination Drive at Zawar Mines

Under Foot and Mouth Disease eradication program of Government of Rajasthan, Mass Vaccination Drive started from 18th February - 6th March, 2017 by Zawar Mines team in 12 villages for providing FMD vaccination to livestock in collaboration with District Animal Husbandry Department Udaipur. Veterinary doctors and team – Dr. Rakesh Pokharna and Dr. Anupama Dixit from District Animal Husbandry Department, Udaipur completed 6,920 FMD vaccination benefiting 1,060 farmers.

## Cattle Vaccination Program at RDC & RAM

Rajpura Dariba Complex team conducted Vaccination program in the villages of Railmagra Tehsil through 9 Govt. centers & sub-centers. 3040 cattle got Vaccinated through these centers by 16th February, 2017.

Vaccination Camps were organized on a regular basis by Animal Husbandry Department by Mr. Pramod Tailor for 1 month. 30 villages were covered under this program and around 3000 cattle got benefited.

### Formation of Sakhi groups at Zawar Mines

80 new Self Help Groups were formed in 6 villages benefiting 1,040 rural women under Sakhi project. 26 Sakhi Self Help Group members were provided employment under MNERGA for 30 days. 13 Self Help Groups were linked with banks.

हिन्दुस्तान ज़िंक के प्रधान कार्यालय में जनवरी 2017 में एसजी नेत्र चिकित्सालय, उदयपुर द्वारा कर्मचारियों के लिए नेत्र चिकित्सा शिविर का आयोजन किया गया। शिविर में 65 कर्मचारियों की आंखों की मशीन द्वारा जाँच की गई व चिकित्सक द्वारा परामर्श दिया गया। कुल 100 व्यक्तियों की जाँच में 10 क्यूलेसीक, 2 पटरीजियम तथा 40 व्यक्तियों को अपने चश्में बदलने हेतु परामर्श दिया गया। हिन्दुस्तान ज़िंक प्रधान चिकित्सालय के मुख्य चिकित्सा अधिकारी – डॉ. प्रकाश चन्द्र भण्डारी ने

### हिन्दुस्तान ज़िंक में नेत्र चिकित्सा शिविर आयोजित



कहा कि इस तरह के शिविर नियमित तौर पर आयोजित किये जाते हैं ताकि कर्मचारियों को स्वास्थ्य परामर्श एवं चिकित्सा की जानकारी मिल सके।

## Training on Goattery Program at RAM & RDC

Training on Goattery program was conducted by Rampura Agucha Mines team with partner NGO on 31st January, 2017 to train more than 600 villagers on cattle rearing. Mr. Babulal Kumhar - Program Coordinator from BISLD NGO was trainer of the program.

Under livestock development program with partner NGO, 2 training programs on Goattery were organized on 19th & 20th February, 2017 at Malikheda and Chadnga kheda villages. Total 53 farmers of 9 villages were covered through these programs. During the training, FIG of Goat keepers were also formed.

## Infrastructure Improvement in Schools at RAM

To provide educational support in the schools, Rampura Agucha Mines team provided green boards to the students of Amartiya Gram Panchayat- Barathiya on 13th February, 2017 covering 200 students. The key members involved in the event were School Administration, Sarpanch of Bhartiya and other CSR coordinators.

### Veterinary Camps at RDC

Rajpura Dariba Complex team in collaboration with Government Animal Husbandry Department conducted 6 Veterinary camps in 6 villages. In these camps, diagnosis & treatment of cattle were done. About 2,830 cattle were covered benefitting 330 families during the month.





राजपुरा दरीबा लोकेशन द्वारा दिनांक 11 मार्च 2017 को अन्तर्राष्ट्रीय महिला दिवस समारोह, वेदान्ता स्टेडियम में मनाया गया। उक्त कार्यक्रम में जिला पुलिस अधीक्षक, राजसमन्द – डॉ. विष्णुकान्त शर्मा थे।

कार्यक्रम में राजपुरा दरीबा लोकेशन हेड – श्री महेश तोडकर, हिन्दुस्तान ज़िंक लेडिज क्लब, महिला अधिकारी व अन्य अधिकारियों के साथ इकाई के आस-पास से करीब 1500 महिलाओं ने भाग लिया। उक्त कार्यक्रम हिन्दुस्तान ज़िंक व सहयोगी संस्थान के संयुक्त तत्वावधान में आयोजित किया गया।

कार्यक्रम की शुरुआत मुख्य अतिथि व अन्य अतिथियों ने दीप प्रज्ज्वलित करके किया, कार्यक्रम में उपस्थित स्वयं सहायता समूह की महिलाओं ने अपने विचार रखें व विभिन्न खेलों का आयोजन किया गया जिसमें रस्साकस्सी, मटका दौड़, जलेबी रेस, चम्मच रेस आदि प्रतियोगिताओं का आयोजन हुआ जिसमें हिन्दुस्तान ज़िंक की महिला कर्मचारियों ने भी भाग लिया। हिन्दुस्तान ज़िंक की महिला क्लब द्वारा बेटा बचाओं व बेटा पढ़ाओं नाट्य प्रस्तुत किया गया व महिला अधिकारियों द्वारा महिला शक्तिकरण पर नृत्य प्रस्तुत किया गया जिसे उपस्थित समुदाय द्वारा सराहा गया।

‘सखी’ अन्तर्राष्ट्रीय महिला दिवस जावर स्टेडियम में 8 मार्च, 2017 को मनाया गया। उदयपुर जोन के चीफ कन्जरवेटर ऑफ फोरेस्ट श्रीमती शिखा मेहरा समारोह की मुख्य अतिथि थी। इस अवसर पर सुश्री नीलिमा खेतान, हेड-ग्रुप सीएसआर, श्री पी.एस. जेतावत, लोकेशन हेड-जावर माइन्स, श्री लालू राम मीणा, महासचिव-जावर माइन्स मजदूर संघ, श्री मोहन खराड़ी, प्रधान-सराड़ा, श्री संजय शर्मा, स्टेट हेड-मंजरी फाउण्डेशन, श्री नारायण शर्मा, जनरल सेक्रेटरी-सेवा मंदिर उदयपुर, जावर खान महिला क्लब की श्रीमती ओम कुंवर जेठावत एवं श्रीमती नीर्मला कालावात उपस्थित रहे।

इस अवसर पर हिन्दुस्तान ज़िंक के सभी सहयोगी एनजीओ द्वारा सीएसआर की प्रमुख परियोजनाओं समाधान, शिक्षा सम्बल, खुशी एण्ड सखी की उपलब्धियों की प्रदर्शनी भी लगाई जिसको सभी अतिथियों ने अवलोकन किया एवं सराहना की। समारोह में आस-पास के गाँवों से लगभग 1300 ‘सखी’ स्वयं सहायता समूह की सदस्यों एवं सरकारी स्कूलों की छात्राएं, जावर माइन्स महिला क्लब की सदस्यों तथा महिला कर्मचारियों ने भाग लिये। आर्चरी, रंगोली, म्यूजिकल चेरर रेस, मटकी रेस, कब्डी, रस्सा-कस्सी, स्पून रेस जैसी अनेकों पारम्परिक एवं स्थानीय खेल प्रतियोगिताओं का आयोजन किया गया अंत में प्रतियोगिता में विजेताओं को पुरस्कृत भी किया गया।



अन्तर्राष्ट्रीय महिला दिवस रामपुरा आगुचा खान की सीएसआर टीम ने हुरड़ा में 7 मार्च, 2017 को मनाया गया। इस समारोह में इकाई के सभी लोगों ने उत्साह से भाग लिया। समारोह में श्री नन्दकिशोर राजोरा, एसडीएम-गुलाबपुरा, श्री आर.पी. दशोरा, लोकेशन हेड-रामपुरा आगुचा खान, श्रीमती घीसी देवी भील-प्रधान, श्री मधुसुदन पारीक-उपप्रधान, प्रबन्धक एवं उपप्रबन्धक-एसबीबीजे हुरड़ा, हुरड़ा गर्वनमेंट सीनियर सेकेंडरी स्कूल के प्रीसिंपल उपस्थित रहे। समारोह में हिन्दुस्तान ज़िंक के सहयोगी एनजीओ, महिला एवं पुरुष अधिकारियों एवं मीडिया ने भाग लिया। इस अवसर पर शिक्षा सम्बल परियोजना की छात्राओं द्वारा कई सांस्कृतिक कार्यक्रम प्रस्तुत किये गये तथा कार्यक्रम में सीएसआर के तहत एनजीओ द्वारा संचालित परियोजनाओं की स्टॉल्स भी लगाई गयी। समारोह के अंत में सभी विजेताओं को मुख्य अतिथियों द्वारा पुरस्कार वितरण किया गया।

#### Infrastructure Development at RDC

In order to improve infrastructure facility of nearby Schools, roof repairing work at Government Sec. School Dariba, renovation of GPS Shivpura, prayer cum lunch shed for students at GPS Dariba and Community Centre work at Kabra village are under progress by Rajpura Dariba Complex team.

## Blankets Distribution in Community at Zawar Mines

Blankets were distributed to newly connected Sakhi SHG members and senior citizens from 7th - 9th February, 2017. Blankets distribution ceremony was chaired by Mr. P.S. Jaitawat - Location Head, Zawar Mines.

450 villagers got benefited by the program.



## Cattle Health Camp at RAM

Cattle Health Camp was organized on 30th January, 2017 at Khati Kheda village by Rampura Agucha Mines team with partner NGO. 45 farmers with 263 cattle got benefitted.

## Plantation and Biodiversity Awareness Drive in Villages at RAM



Rampura Agucha Mine with partner agency carried out a mass awareness program - 'Awareness on Plantation, Water conservation and Biodiversity' in nearby villages. Each program was of 2-3 days in each village.

It was initiated by the agency by addressing all the students in the school on plantation, water conservation and Biodiversity and then distribution of pamphlets. A discussion was held at night in the community centre or temple of the village with the villagers and children - explaining them the utility and importance of the different varieties of the saplings provided, water conservation and Biodiversity. On second day plantation was carried out, and an oath was summoned to each child for taking care of the saplings planted and making them 'Vriksh Mitras'. 'Apano Gao Samiti' was also formed in the village for taking care of the plantation and Biodiversity. About 1000 saplings of fruit and shady trees were distributed during the event.

## Sponsorship to Sports Kabbadi Tournament at Kayad Mine



A Kabbadi Tournament was organized by Kayad Mine at Gagle village from 13th – 15th February, 2017. 22 teams participated in the tournament. The program was inaugurated by Ms. Vandana Nogia – Zila Pramukh, Ajmer and Mr. Manoj Khandelwal – HR Head, Kayad Mine. Ajmer Stadium Club Team won the tournament and runner-up was Beawar Shree Cement Team. A match for local school girls was also organized. The award function was chaired by Ms. Sunita Rawat - Srinagar Head. The memento was given to winner & runner team by village Sarpanch.

## News Digest...

- ♦ To select the students for second phase of test for IIT coaching, a test was conducted through Resonance on 7th February, 2017 at 7 Govt. schools by Rampura Agucha Mines. There were 332 students for this exam.
- ♦ Rampura Agucha Mines team provided Tin sheds at Kheda Palola on 21st February, 2017 wherein 15 families got benefited.





As a part of the Jeevan Tarang Initiative for main-streaming people with disability, a Trek was organized on 5th March, 2017 for Blind students of Vidhya Chakshu Senior Sec. School, several employees at HZL (from Finance, Exploration, Project Commercial, CSR teams & HZL spouses) volunteered to take these 10 blind students for Trekking. Each volunteer was paired with one visually-challenged student for the 8 km long Trek to Badi and the forests & fields around. The Trek was sponsored by the HZL EXCO members. The Trek gave a lot of confidence and happiness to these students.

## QUALITY OF LIFE

### Swachh Bharat Abhiyaan at RAM

Shramdaan was organized at CISF colony on 12th February, 2017 as a part of Swachh Bharat Abhiyaan at Rampura Agucha Mines. Family members of M/S. Dhansar Engg Company residing at colony including children participated in the cleanliness drive.

### Employee's Family Visit at PMP

Employees and 30 family members visited Pantnagar Metal Plant on the occasion of Republic Day i.e., 26th January, 2017. Family members were taken through the Silver process.

### हिन्दुस्तान जिंक ने मनाया 68वाँ गणतंत्र दिवस समारोह

हिन्दुस्तान जिंक के प्रधान कार्यालय के प्रांगण में गणतंत्र दिवस हर्षोल्लास से मनाया गया। 68वें गणतंत्र दिवस के अवसर पर श्री राजेन्द्र पण्डवाल – कम्पनी सेक्रेट्री ने कर्मचारियों एवं उनके परिजनों की उपस्थिति में राष्ट्रीय ध्वज फहराया।

इस अवसर पर कर्मचारियों को सम्बोधित करते हुए श्री पण्डवाल ने कहा कि आज गणतंत्र दिवस पूरे देश में उत्साह और हर्षोल्लास के साथ मनाया। भारत आज लोकतंत्र की मशाल जलाते हुए दुनिया में आशा-उमंग, शांति के आकर्षण का केन्द्र बन गया। भारत का संविधान हर नागरिक के भाग्य और भविष्य का निर्माता और सरकार के लिए मार्गदर्शक है। हिन्दुस्तान जिंक अपने व्यापार के साथ-साथ आर्थिक, सामाजिक कल्याण एवं ग्रामीण उत्थान तथा पर्यावरण, संरक्षण एवं सुरक्षा के प्रति सदैव कटिबद्ध है। इस अवसर पर हिंद जिंक परिवार के बच्चों ने कविता, संगीत एवं देश-भक्ति गीतों की प्रस्तुतियाँ भी दी।



कंपनी की सभी इकाइयों में 68वाँ गणतंत्र दिवस बड़े हर्षोल्लास से मनाया गया है। इस दौरान रामपुरा-आगुचा खदान के 26 सुरक्षा कर्मचारियों को समर्पित सेवाओं के लिए सम्मानित किया गया।





## Interaction with Chairman

A Vedanta Partnership Meet (Interaction with Chairman) was organized at Cape Town, South Africa from 6th - 8th February, 2017. The objective of the event was expansion of Zawar Mines & the improvement in the Silver recovery. The key persons involved in the interaction were Mr. J. Balasubramanian from Rampura Agucha Mines and Mr. D. Vishnuvardhan from Zawar Mines.

## Visit of Mr. Ravi Rajagopal - Non-Executive Director, Vedanta Resources to RDC



Mr. Ravi Rajagopal - Non Executive Director, Vedanta Resources visited Rajpura Dariba Complex on 24th & 25th January, 2017. During his visit, he went to Rajpura Dariba Mine and also witnessed various CSR programs being run by Hindustan Zinc in villages near its business locations.

## DEEDS TO EMULATE

### Ms. Suma James



Staff Nurse - E.No. 661339, CSC participated in Rajasthan State Masters Badminton matches from 26th January, 2017 and won 1st prize.

### Mr. Pritam



from RDC received Bravery Award on Republic Day, 26th January, 2017 for being a member of team to rescue 4 people trapped due to heavy rain in Sindesar Kalan.



### 39th All India Mohan Kumar Manglam Hind-Zinc Football Tournament



39th All India Mohan Kumar Manglam Hind-Zinc Football Tournament was organized at Zawar Stadium from 22nd - 30th January, 2017. Total 16 teams from all over India participated in this tournament. Kerala Police won the Tournament. On closing function, Senior Management of Hindustan Zinc - Mr. Sunil Duggal – CEO, HZL, Mr. L.S. Shekhawat – COO, Mines, Mr. Naveen Singhal – Director, Projects, Mr. P.S. Jaitawat - Location Head, Zawar Mines and Mr. U.M. Shankar Das – President, Hindustan Zinc Workers Federation were present. The chief guest of closing ceremony was Mr. U. Sharaff Ali - Ex-Football Player of Indian Football Team. Closing Match saw the audience of 15,000 people from nearby villages.

### Football League at RAM



Rampura Agucha Mines organized a Football League from 18th - 26th February, 2017. Five teams participated and final match was held on 26th February, 2017 wherein Rampura Agucha Underground team won the league.

#### ज़िंक से है जीवन

जस्ता हूँ मैं जस्ता हूँ,  
काम का हूँ मैं दाम का हूँ।  
मैं लोहे की ढाल बनूँ,  
उसके जीवन (श्रय / काट) को बचाने को।  
जस्ता हूँ मैं जस्ता हूँ,  
काम का हूँ मैं दाम का हूँ।  
ज़रूरत पड़े तो दवा बनूँ,  
तन को तंदुरुस्त बनाने को।  
जस्ता हूँ मैं जस्ता हूँ,  
काम का हूँ मैं दाम का हूँ।  
मैं हूँ ज़रूरत उस पौधे की,  
जो एक दिन वट वृक्ष (पेड़) का रूप ले,  
जो मानव को शीतल छाया  
और मीठे फलों का उपहार दे।  
जस्ता हूँ मैं जस्ता हूँ,  
काम का हूँ मैं दाम का हूँ।  
मैं शान हूँ, अभिमान हूँ, उस आभूषण का,  
जो मानव का श्रृंगार बने।  
जस्ता हूँ मैं जस्ता हूँ,  
काम का हूँ मैं दाम का हूँ।  
तनु जोशी  
जावर माइन्स

## 10 refreshing summer drinks you'll only find in India!



Quench your thirst with a sip of these chilled drinks.

### 1. Shikanji

Easily available shikanji is made by adding lemon juice, ginger, rock salt, pepper and a little sugar to chilled water.

### 2. Aam panna

Made from raw mangoes, this heavenly liquid is perfect to quench your thirst and also benefits in several other ways. It is the sweet-and-sour flavor that make aam panna a favorite.

### 3. Jal jeera

Jal jeera, a digestive drink is made by adding spices that soothe the tummy especially jeera or cumin along with black salt, pepper and ginger to water.

### 4. Solkadhi

Solkadhi is a refreshing drink made using kokum and coconut milk. Drunk after meals, this pink drink also has salt, pepper, garlic and chilli for flavoring.

### 5. Kokum sherbet

A sweet and tangy drink, made by adding water to the concentrated kokum syrup. The syrup is prepared by soaking the rinds of kokum in hot water

### 6. Rooh Afza

Rooh Afza, a rose-flavored drink has cooling agents and is often served as a welcome drink in most homes.

### 7. Chhaas

Chhaas or chaach is a favorite especially during the summer. It has several variations and methods of preparation from spiced buttermilk to plain one.

### 8. Lassi

Lassi is a staple drink of Punjab and extremely refreshing when it is served chilled. A concoction of sugar and curd, it is also topped with milk cream or malai or butter.

### 9. Nimbu Paani

Nimbu Paani is one of India's most-loved summer drinks. One can add salt and sugar as per the liking or replace water with soda too.

### 10. Thandai

Served chilled, the Thandai is made from cold milk with the addition of almonds, raisins, saffron, cardamom and sugar.

एक धनवान अपने शहर से दूर घूमने के लिए दूसरे शहर गया। वहाँ जाकर वह साधारण कपड़े पहनता था और सामान्य होटल में ठहरता था। खानपान की सामग्री भी सस्ती उपयोग करता था। धनवान को शायद इस बात का एहसास था कि इस शहर में उसे कोई नहीं पहचानता।

एक दिन वह सामान्य कपड़े पहनकर सस्ते होटल में खाना खा रहा था। उसी होटल में उसके शहर का भी एक परिचित व्यक्ति भोजन ग्रहण कर रहा था। धनवान को पहचान कर उसके पास गया और कहा कि आप इतने संपन्न व्यक्ति हैं और इतने साधारण होटल में खाना खा रहे हैं ?

धनवान ने कहा कि, इससे क्या फर्क पड़ता है? मैं न तो इस शहर का हूँ, न ही यहां के लोग मुझे पहचानते हैं।

धनवान कुछ समय बाद वापस अपने शहर आ गया। एक दिन वह शहर के साधारण होटल में सादे कपड़े में नाश्ता कर रहा था। संयोग से वही व्यक्ति पुनः धनवान से होटल में टकरा गया। परिचित व्यक्ति ने धनवान से दुबारा सवाल किया—अपने शहर में भी आप सामान्य होटल में खाना खा रहे हैं ?

धनवान ने जवाब दिया कि सब जानते हैं कि मैं संपन्न आदमी हूँ। मैं कहीं भी बैठूँ, कुछ भी पहनूँ, पैदल या मोटरगाड़ी से चलूँ। कोई फर्क नहीं पड़ता है।

उस व्यक्ति को धनवान की बात समझ में आ गई। किसी ने सच कहा है — 'समर्थ के लिए सब जायज है।'

पुस्तक 'बट वृक्ष की छांव में'

## Zinc Fitness Tournament at HZL



Zinc fitness tournament was organized at Zinc Fitness Club, Udaipur on 17th & 18th December 2016. There were six rounds for Mr. Yashad & five rounds for Ms. Yashad title. Prize distribution ceremony was organized on 31st December, 2016. Mr. Prashant Nagda was declared as Mr. Yashad and Mr. Advait Singh Chauhan was the Runner-up. Ms. Shanti Reddy was Ms. Yashad and Ms. Smruti Shikha was the Runner-up of the tournament. The best performers in each categories were Mr. Advait Singh Chauhan, Mr. Mod. Ismaile, Mr. Vijay Mishra, Mr. Komal Ratore, Mr. Samar Singh Solanki and Mr. Pawan Doddhial and the best Female Performers in each categories were Ms. Radhika Kasi, Ms. Shivkanya Rathore, Ms. C. Bharti, Ms. B. Vishalam. Mr. Shekhar Sharma (Fitness Trainer & Coach) facilitated the tournament. He was also awarded by Mr. Akhilesh Shukla for Best 'Fitness Trainer & Coach'.



Naughty Meena made 10 differences while copying the Picture - 1, she missed some and added some in the new Picture - 2. Let's find those 10 differences in Picture - 2.

Kid's  
Column !!

Master Picture : Picture - 1



Oops !!!

Meena missed some,  
added some...

Copied Picture : Picture - 2



- Answers: Picture 2**
1. Change in the shape of plank of the boundary on the right side of the picture.
  2. Sun imprint on right side of the Hut is missing.
  3. Sun imprint on left side of the Hut has been added.
  4. One thin stick has been added in the boundary on left side of the picture.
  5. Change in the shape of the Window of Hut in the centre.
  6. A Yellow Fruit has been added to the plant on right side of the picture.
  7. Extra branch to the Cactus plant has been added on left side of the picture.
  8. One small hole has been added in the Door of the Hut.
  9. Change in the colour of Water Puddle on left side of the road.
  10. Change in the colour of the Drum kept on right side of the road.

## DIGITAL PRESENCE

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# शहर हमारा जिम्मेदारी भी हमारी

यातायात के नियमों का पालन करना -  
हमें ही सुनिश्चित करना है

- यातायात के सभी नियमों का पालन करें एवं सुरक्षित रहें ।
- दुपहिया वाहन चालक एवं पीछे बैठने वाला व्यक्ति भी हेलमेट पहनें ।
- दुपहिया वाहन केवल दो व्यक्तियों के लिए ही है-नियमों का पालन करें ।
- चौपहिया वाहन चलाते समय सीट बेल्ट का उपयोग करें ।
- वाहन को ग़लत दिशा से ओवरटेक न करें ।
- अस्पताल एवं विद्यालय के आस-पास हॉर्न ना बजायें ।
- स्कूल के पास वाहन को गतिसीमा में ही रखें ।
- बच्चों को निर्धारित आयु सीमा से पहले वाहन न चलाने दें ।
- वाहन चलाते समय मोबाइल का उपयोग न करें ।
- पैदल यात्रियों का ध्यान रखें और ज़ेब्रा क्रॉसिंग से पहले वाहन को रोकें ।
- लाल बत्ती होने पर वाहन का इंजन बंद कर दें - ईंधन बचायें ।
- भीड़-भाड़ वाले क्षेत्र में वाहन न ले जाएं ।
- शराब पीकर वाहन ना चलायें ।

हमारा शहर - हमारा गौरव



यह विज्ञापन  
हिन्दुस्तान जिंक (वेदान्ता ग्रुप)  
द्वारा जनहित में जारी