

ZINC news

हिन्दुस्तान ज़िंक का मुख पत्र | THE HOUSE JOURNAL OF HINDUSTAN ZINC



HINDUSTAN ZINC

Zinc of India

LEAD : LEADING THE WAY

LEAD BATTERIES WILL WITHSTAND COMPETITION

Whenever the question of dependability and inexpensive batteries will be raised, including the cost-per-watt base, Lead batteries will stand out as the first preference.

There would definitely be an advantage to Zinc based batteries in home-office sector, being more environment friendly. Ultimately, market will drive the demand, and the market of automobiles, UPS and electrification storage is set to grow mammoth across the world.

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Football Academy
- India's first F-Cube
Technology introduced



Ajmer Dargah
to have Facelift

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Dear Shareholders,

I welcome you all to the 52nd Annual General Meeting of your Company. The Annual Report for the year ended 31st March 2018, along with the Board Report and Audited Financial Statements have already been shared with you. With your permission, I will take them as read. In the financial year 2017-18, Hindustan Zinc delivered record operational and financial performance with highest ever ore, mined metal, refined zinc-lead and silver production as well as all-time high EBITDA and Net Profit. With record Silver production, Hindustan Zinc is now one of the Top-10 producers of Silver in the World. The silver refinery at Pantnagar has now been added to London Bullion Market Association's 'Good Delivery' list based on our operational excellence as well as high quality of silver bars. Based on our increasing production from our mines and multiple technical initiatives to enhance recovery of silver, our next milestone is to be in the Top 5 global silver producers in the next 3 to 5 years.



Our strategic Vision is to grow our output to 1.5 million tonnes per annum from the current 0.95 million tonnes and I am delighted that the Board has approved the first phase of expansion towards achieving it. The ongoing expansion of our mines will take our mined metal capacity to 1.2 million tonnes per annum in FY 2020. The Phase I of growth projects will further increase it to 1.35 million MT per annum along with additional smelting capacity over next three years at a capital expenditure of about Rs. 4,500 Crore.

During the year, we continued our robust performance setting new record of 960kt of zinc & lead metal and 558 MT of silver, delivering growth of 19% and 23% respectively from last year. At 947kt, mined metal production was also an all-time high. EBITDA at Rs. 12,376 Crore was an all-time high growing 27% over previous year.

The Rampura Agucha open cast mine delivered its last ore in March 2018, marking the end of 27 years of glorious performance during which it became the largest zinc mine in the world. We planned the transition to underground mining six years ago and the underground mine has already touched a rate of 3 million tonnes per annum out of the planned annual rate of 5 million tonnes of ore.

Sindesar Khurd mine has surpassed all expectations and is already operating at 5 million MT run rate and expected to eventually reach 6.5 million MT per annum. The two shafts under construction at Rampura Agucha and Sindesar Khurd will significantly increase our ore hauling capacity while decline development and shaft upgradation at Rajpura Dariba will increase its overall capacity to 2 million MT per annum. The increase in R&R in Zawar gives us the confidence to raise our target to 5.7 million MT per annum through addition of new production centers.

However, the Company is deeply anguished to report two fatalities at our project sites and express our deepest condolences to the families of deceased persons. These accidents show that we have to keep stressing on safe behaviour and best practices in our operations and project sites. The accidents were fully investigated and corrective actions have been taken at all our sites.

Hindustan Zinc is rapidly embracing digital technologies to enhance the productivity, efficiency and safety. The biggest impact on our operations will be through ongoing digital transformation towards smart, connected, intelligent mines. This will allow data driven decision-making to maximize value from our existing assets with greater precision along with superior predictability to make mining better, faster and safer. Real-time monitoring, advanced sensor technologies and analytics will enhance our ability to collaborate, integrate and co-create as one team, whether it's our mining operations, smelters or head office. This has potential to transform our entire business through better transparency, accountability and partnerships with our stakeholders along with environmental stewardship and corporate social responsibility.

With our investment in digital technologies, HZL's Sindesar Khurd mines is now the most digitally advanced mine in India. Our aim is to digitize and integrate all our operations and make HZL a leading and the most admired mining company, thus making further contributions to our mission of nation building and creating societal value. I am excited to mention that we have already successfully digitized 1.5 km of decline and portal in Sindesar Khurd mine and full roll-out is under progress. We are now able to run loaders in tele-remote mode and production drilling machines can now automatically operate during smoke hours for higher utilization and safety. Besides, we are automatically capturing machine health and production data online to improve equipment availability and productivity.

Hindustan Zinc is teaming up with various industry leaders for the digital reinvention. During the next few years, these digital capabilities will be rolled out across the entire organization. These innovations will enable HZL to achieve our vision with world class automation and safety.

We continue to maintain our position as one of the lowest cost producers globally despite the recovery in input prices, which led to higher operating costs and offset the leverage of higher volume and cost optimization initiatives. The Board declared dividends of 400% amounting to Rs. 4,068 Crore including dividend distribution tax during the year.

I am also pleased to inform you that we contributed Rs. 9,301 Crore to Government treasury through royalty, taxes and dividends on cash basis, which is equivalent of 42% of our revenues, our humble contribution to nation building.

We are tirelessly working towards making your company a sustainable enterprise. Several sustainability initiatives are planned in the near future. Our first Fumer project at Chanderiya zinc smelter will be commissioned this year which will reduce waste, increase metal recovery and reduce land requirement by 1 hectare per annum.

I am pleased to bring it to your notice that Hindustan Zinc was ranked 11th overall globally and 3rd in Environment dimension in Dow Jones Sustainability Index in Mining and Metal industry. We are the only Indian mining company and one of the nine Indian companies that have been included in the prestigious RobecoSAM Sustainability Yearbook 2018. This has been achieved through stringent and focused efforts toward “zero harm” to people and environment. During the year, we achieved:

- ♦ Reduction in injury frequency rate to 0.27 from 0.30 in previous year, leading to 69% reduction over last five years
- ♦ Zero occupational illness cases
- ♦ Zero high potential Environment incidents

Under Swachh Bharat mission, we are trebling sewage treatment plant capacity at Udaipur by adding three such plants of which Phase I is now under construction and expected to be commission in FY 2019. The existing sewage treatment project has been recognized as one of the best private partnership models and awarded the 'India Today Safaigiri' award 2017 by the Vice President of India, Mr. Venkaiah Naidu. This initiative of treating the city sewage dumped into the lakes has reduced our water foot print by using treated sewage water instead of fresh water at our Dariba smelter while helping to keep the lakes clean and conserving fresh water.

We are reducing land requirement innovatively by developing solar power plants on waste land. A solar project of 24 MW is under construction on Rampura Agucha waste dump, which will reduce the land footprint by 115 acres. We have already used the jarosite pond at Debari Smelter and the old tailing dam at Dariba mine to install solar power of 16MW. Across the three solar projects, over 190 acres of waste land will be utilised to generate 40MW of solar power.

During the year, we almost doubled our Corporate Social Responsibility spending to Rs 92 Crore, of which about a third was spent on education where we have programs for all age groups. While this is still short of our target, I am pleased to see a significant ramp up in our key projects and would like to highlight few achievements of our CSR projects:

We revamped Shiksha Sambal program three years ago to strengthen teaching of science, English and mathematics in classes 9th to 12th in Government schools through field instructors. In the recent class 10 Board exam, passing results of 70% or higher were achieved at over 80% of schools covered as compared to 50% of schools in 2016 base year, showing the success of this program.

Under our Khushi program, attendance at over 3000 Anganwadi centres went up from 43% in 2016 base year to 59% during the year. This was achieved through higher community engagement and system wide improvement in monitoring and worker skill levels.

We are upgrading the existing run-down Anganwadis into new age Nandghars with state-of-the-art infrastructure and also building new Nandghars. During the year, we completed about 50 Nandghars and initiated construction of another 225 including 25 new Nandghars.

I am most excited about the residential Football Academy that we set up during the year to take forward our football tradition that started with All India Mohan Kumar Mangalam Hindustan Zinc Football tournament in Zawar about 42 years ago. Along with 58 community academies across our five districts including four centers exclusively for girls, we have created infrastructure for scouting and training young talent. During the year, scouting camps were held across Rajasthan, scouting nearly 3,500 children and shortlisting 56 of them for the Residential Academy. The girls team made their debut in Rajasthan State championship and reached the semi-finals.

In conclusion, your Company is targeting another record year of production in FY 2019, in line with our expectation of delivering 1.2 million MT in FY 2020. We are committed to continuously create value for shareholders. I, on behalf of Hindustan Zinc, would like to thank all our shareholders, customers, suppliers, employees, governments, recognised union and the communities around our operations for their continued support and trust.

Thank You

Chairman, Hindustan Zinc Limited

Place: Udaipur

Date: August 31, 2018

Man on Mission to Galvanize Indian Economy

Published in Asian Age | 25th September, 2018

Galvanization of steel will add to Make in India and Sustain in India. Use of galvanized steel is like an investment. It increases the life of infrastructure and provides safety. It adds to the GDP of the country by reducing scrap and it reduces the recurring expenditure on replacements. It is not about cost of galvanization that the country and the people have to bear, it is the investment for our safety and growth, as an individual and as a nation.

India is the seventh-largest country in the world, with a total area of 3,287,263 square kilometres (1,269,219 sq mi). It has a land frontier of 15,200 km (9,445 mi) and importantly a coastline of 7,516.6 km (4,671 mi).

This is just an indication of how much India is exposed to global warming which is set to severely impact buildings, dams, roads, bridges, automobile sector, railway sector, energy sector and petroleum sector.

Global climate change is one of the most important concerns for world governments and is a major research subject for the scientific international community with the participation of multi and interdisciplinary groups. Two fundamental reports – the United Nations Intergovernmental Panel on Climate Change (IPCC) and the N. Stern, The Economics of Climate Change, 2007 Cambridge University Press, UK, outlines parameters that will affect infrastructure, temperature change, atmospheric moisture change, sea level raise, wind, desertification, pollution and inclusive biological infestation.

Temperature change is gradually resulting in extreme climate, changing the periodicity of climate cycles. Such extreme climate events are bringing detrimental effect by way of corrosion and also bio-deterioration. This is also damaging both metallic and non-metallic materials used in infrastructure construction.

Many studies have elaborated the impact on structures due to global warming and their exposure to corrosion.



Asian Age spoke to Sunil Duggal, the Chief Executive Officer of Hindustan Zinc, the only Indian company that produces Zinc, the primary source for Galvanization.

Reinforced concrete (RC) structures are subjected to environment actions affecting their performance, serviceability and safety. Among these actions, chloride ingress and carbonation lead to corrosion of reinforcing bars that reduce the service life of RC structures. Evidence indicate that carbonation and chloride ingress are highly influenced by environmental and climatic conditions of the surrounding environment – atmospheric Co2 concentration, temperature and humidity.

Zinc, through galvanization process, protects steel from rusting that enhances the lives of buildings, houses, bridges, railways, ships, defence equipment, highways, and airstrips to name prominently, though there are a number of other usages of Zinc that protect steel from rusting.

Sunil Duggal said, “Awareness is the key to build a galvanized Indian economy. People do not understand the difference between 'steel' and 'galvanized steel'. Galvanized steel increases the life of steel and gives life to not just industrial sectors but also house-hold sector. Galvanization is a layer of protection to safeguard steel from rusting. Globally people are understanding that use of galvanized rebars can increase the life of their houses that can withstand many risks. Infrastructure at coastal areas are at the maximum risk due to humidity and constantly changing climate. Galvanized rebars protect pillars and hold construction. Galvanization of steel used in car body enhances the life of vehicle multi-fold – your recurring expenditure on repairs decreases and your safety increases. The new mega infrastructure development that is happening in India today, with the use of steel, should only use galvanized steel for strength and long life.”

Sunil Duggal reminded of the massive cloud burst that happened in Uttarakhand in 2013. He said, “I remember in the year 2013, due to cloudbursts in the state of Uttarakhand, the flash floods in river Ganga and landslides washed away thousands of lives. The Kedarnath Bridge at Sonprayag was also washed out due to heavy floods. The death toll and destruction was so massive that it left the region devastated. Subsequently, a Bailey bridge (a portable, pre-fabricated, truss bridge) was built by the Border Roads Organisation, limiting the traffic to one way and a maximum load of 12 tonnes at the most. But June 2015 saw more floods and this bridge was also washed away.

Since the Temple is 3500 feet above sea level and is

situated in a challenging topography, the construction of a stronger flawless bridge required more than 3 years to build. Further, since the bridge was to be built in such difficult conditions, it would have been impossible to regularly protect or maintain. It was finally decided that the new bridge has to be made of galvanized steel to ensure that it does not collapse.

The galvanized bridge was shipped in containers from the USA, completed and became operational in an incredible 45 days. In the new bridge, all the panel chords, diagonals, verticals, raker, reinforcing cords along with all the structural beam members and flooring were hot dip galvanized.

This bridge could have been 'Made in India'.

He gave another example of Bandra Worli Sea Link. The Bandra Worli Sea Link is the first and the longest sea link bridge in India. It is an 8-lane cable-stayed bridge, spanning about 5600 meters in length and towering to a height of 126 meters. Executed at a cost of Rs. 16.5 billion, the material used in the construction project had to meet quality regulations and standards considering an average daily traffic of 37,500 vehicles.

“Infrastructure like bridges are extremely vulnerable to rust and corrosion due to their proximity to marine salts and moisture. One of the rust prevention methods for these structures is to provide a barrier coating by galvanization, galvanization by Zinc” he said.

The quality and reliability of steel wire ropes was a crucial factor in the construction of the bridge since the steel wires are required to support the cable stay bridge. The bridge stands strong with support of high-strength galvanized steel cables, rigorously tested before being put to use. Over Rs. 90 million is spent on illuminating the sea link. Many countries came together and decided to build this bridge to ensure that it stands tall in any condition. India, Egypt, China, Canada, Switzerland, Britain, Hong Kong, Thailand, Singapore, Philippines, Indonesia and Serbia deliberated extensively on safety and longer life of Bandra Worli Sea Link Bridge and the importance of using galvanized steel.

Sunil Duggal is of the opinion that in India, for environment protection, government has listed several laws. Many Acts have been passed in Parliament. But what about the damage to environment and economy through rusting and corrosion – “Creation of junk is destruction of environment and economy. Corrosion

eats around \$600 billion infrastructure a year which is about 6% of GDP” he says.

“Coastal salts can create a corrosive environment for any infrastructure across the world, the reason being humid and saline climate. When steel reinforcement corrodes, the corroded product occupies more than three times the volume of the original steel, exerting great disruptive tensile stress on the surrounding concrete, leading to further cracking, more weather access and further corrosion. According to the American Institute of Architects, it is essential to use hot dip galvanized steel, to make such coastal infrastructure decay resistant” he said.

Speaking about the recurring expenditure being incurred by Indian Railways on changing of rails, fishplates and other infrastructure. The fourth largest rail network in the world, Indian Railways, comprises 125,000 km of track length over a route of 67,312 km. More than 50% of the route is electrified. Indian Railways has about 1.35 Lakh bridges and about 800 are most important.

Sunil Duggal said, “Indian Railways sector is a major concern since rusting and corrosion of the infrastructure is becoming a worry for safety of passengers. Almost all the infrastructure of Indian Railways is exposed to humidity, dust and extreme change in climate. It is already struggling due to huge expanses in replacement and repairing. The annual loss due to pre-replacement of corroded rails is huge about Rs. 440 crore. Many accidents have been attributed to corrosion of "Fish-plates". Experts have estimated losses of almost 4% of GDP per year on account of corrosion which may be avoided if the railway tracks are galvanized. Corrosion reduces the life of rail to nearly half its expected life.”

Car makers in Europe, North America, Korea and Japan have been using galvanized steel for body panels for decades and provide anti-corrosion and perforation warranties for a minimum of 10 years. More than 60% of the cars in India have surface rust which reduces steel strength and the life of the car.

“Globally the top brands in cars started galvanising various parts of the cars including the body to fight corrosion issues. This brought safety to the cars and protection to the environment and strengthened the economy. By 1987, what became standard was a 10-year perforation and five-year cosmetic warranty from all the North American, European and Japanese

automakers for vehicles sold in the North American market. Indian car manufacturers use about 3% galvanized steel for domestic market. However, the same Indian car manufacturers use over 70% galvanized steel for the same models which they export to markets in Europe, Asia and Africa, produced from the same stamping and assembly facilities.”

He is of the firm belief that “Indian consumers are not getting it, because they are not demanding for. It is their direct loss.”

“India is producing about 100 million tonnes of steel but surprisingly less than 1% is galvanized, which is just about 8 million tonnes. On the other hand we are importing 1.44 million tonnes of galvanized steel from China, Korea and Japan. We are increasing imports but not producing galvanized steel within the country” Sunil Duggal says.

The global galvanized steel market for the industrial sector was valued at around 56 million tonnes in 2015 and is estimated to grow at a CAGR of about 5% by 2020. America alone produced 4.5 million tonnes of galvanized steel in 2016, which is 30% more than what it produced in 2012. There is a focus for building long lasting infrastructure.

He finally says, “Galvanization of steel will add to Make in India and Sustain in India. We might be making over-bridges, railways bridges, roads, high-rise buildings, railway tracks, fish plates, metros, electricity networks, ships, and automobiles, and using millions of tonnes of steel. But for how many years are we making them sustain is a point of contention. If our vision is long term, then the infrastructure also needs to sustain even longer”.

“It is not about cost of galvanization that the country and the people have to bear, it is the investment for our safety and growth, as an individual and as a nation. It is about galvanization of economy for future growth and prosperity” he says.

Hindustan Zinc represents India in the international Zinc market. Hindustan Zinc is the only integrated Zinc-Lead-Silver producer in India and is known globally as “Zinc of India”. India is self-sufficient towards availability of Zinc and thus, given the expansion of galvanized Zinc market in India, the country is assured of availability of Zinc since Hindustan Zinc is also expanding its production from current 1 million tonnes to about 1.5 million tonnes.

Govt. Plans to Make 70% Galvanised Steel Must for Cars Made in India

FOCUS ON SAFETY
Road transport ministry is considering proposal that would apply to cars costing less than ₹10 L

Published in Economic Times | By Rakhi Mazumdar | 25th August, 2018

The Union Ministry of Road Transport and Highways is considering a proposal that seeks to make it mandatory for automobile manufacturers to ensure that 70% of a car's frame is made of galvanised steel in the interest of passenger safety.

The ministry has sent the proposal to Automotive Research Association of India, Pune, and the International Centre for Automotive Technology, Manesar, requesting them to examine the issue and submit a report.

The proposal, which if accepted, will be implemented under the prevention of corrosion in motor vehicles rules, which would apply to cars that are made in India and have a price less than ₹10 lakh.

The rules are the outcome of an extensive study by IIT Bombay in 2015, which found that corrosion is a major factor affecting the durability and safety of cars in India.

When contacted, a top official at the ministry said: "We keep getting a number of proposals and we do seek expert opinion of testing agencies."

The testing agencies recommend technical standards for vehicles. After the testing agencies give their report, it will be taken up by the ministry's Technical Standing Committee, which meets every six months.

A technical expert at the ministry said the move is part of the government's overall thrust to establish standards that will enhance road safety.

Steel makes up 50% of the total weight of a car, and can corrode faster over time if not galvanised, which puts the safety of the occupants at risk.

The US-based Insurance Institute of Highway and Safety found that compact cars were at a greater risk than sedans owing to the steel used in their construction.

In India, however, the safety of passenger cars is usually measured in terms of number of air bags, crumple zones and shock absorbing capacity.

Due to the absence of norms, manufacturers use galvanised steel for only 30% of the car's frame for cars sold in India, while the same model incorporates 70% galvanised steel when exported. Low consumer awareness is another reason for the practice. These cars are typically bought by the middle class, who aim to own them for 7-10 years.

"Thus safety is compromised for a large section of society," said the ministry note, which was seen by ET. The average cost of a vehicle, priced around ₹10 lakh, is estimated to go up by only around 1% if 70% galvanised steel is used, the note added, saying some 2.3 lakh tonne of steel is used by automakers in India and that domestic steel makers have sufficient resource to galvanise this steel with zinc.

The Indian automotive industry, the world's sixth largest in terms of both value and volume is expected to grow four times by 2025-26 with a 10% growth in vehicle sales.

FOCUS ON SAFETY Road transport ministry considering proposal that would apply to cars costing less than ₹10 L

Govt Plans to Make 70% Galvanised Steel Must for Cars Made in India

Rakhi.Mazumdar@timesgroup.com

Kolkata: The Union Ministry of Road Transport and Highways is considering a proposal that seeks to make it mandatory for automobile manufacturers to ensure that 70% of a car's frame is made of galvanised steel in the interest of passenger safety.

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Corrosion Risk

Steel makes up 50% of the total weight of the car

Non-galvanised steel corrodes easily, making the vehicle potentially unsafe

Cars sold in India have galvanised steel for only 30% of the frame

But cars exported from India have 70% of the frame made of galvanised steel

The practice continues due to lack of norms & low consumer awareness

Due to the absence of norms, manufacturers use galvanised steel for only 30% of the car's frame for cars sold in India, while the same model incorporates 70% galvanised steel when exported. Low consumer awareness is another reason for the practice. These cars are typically bought by the middle class, who aim to own them for 7-10 years.

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Mr. Sunil Duggal - CEO, HZL is the new President of FIMI



Mr. Sunil Duggal - CEO, HZL has been appointed by FIMI (Federation of Indian Mineral Industries) as its new President. The decision in this regard was taken by FIMI in their Annual General Meeting held on 14th August 2018. Mr. Sunil Duggal is also the Vice Chairman of International Zinc Association, Co-Chair – FICCI Non-Ferrous Metals Committee 2018 and President – Indian Lead Zinc Development Association. He has also been Co-Chair of CII National Committee on Mining for 2017-18 and Chairman of Skill Council for Mining Sector.

The Federation of Indian Mineral Industries (FIMI) is an all-India apex body established in 1966, to promote the interests of mining (including coal), exploration, mineral processing, metal making and other mineral-based industries. The body works towards promoting 'Mine in India' for 'Make in India', commitment to socio-economic growth and improving lives in remote mining regions, leading the sustainable mining movement in India, transforming geologic possibilities into mines of wealth and honing India's mining skills.

250 Graduate Engineer Trainees (GETs) from 61 colleges in 23 States of India have been inducted in Hindustan Zinc. These GETs are from different streams like – mining, electrical, metallurgical, chemical, instrumentation, electronics, civil engineering, mechanical & computer engineering and are going through a rigorous process of Induction. During the induction, they are given exposure to different businesses, departments and challenges. Leaders from all the departments of Hindustan Zinc interacted with them to give exposure of business. Post induction, the GETs would be placed at Hindustan Zinc mines and smelters located at Udaipur, Bhilwara, Chittorgarh, Rajsamand and Ajmer in Rajasthan and Pantnagar in Uttarakhand.

Present during the event were Mr. Sunil Duggal - CEO, Mr. Laxman Shekhawat - COO Mines, Mr. Ramakrishnan Kasinath - CCO, Mr. Chetan Trivedi - Head IT, Mr. Kastoor Meena - Site President RDC, Mr. Pavan Kaushik - Head Corporate Communication, Ms. Jayita Roy - Deputy Head HR, Mrs. Neelima Khetan - Head CSR and Mr. V.P. Joshi - Head Safety.

250
Graduate Engineer Trainees
from 61 Colleges
in 23 States of India join
Hindustan Zinc



During the induction, GETs are given exposure to different businesses, departments and challenges...



Will Lead Retain Its Sheen In Batteries?

Published in Asian Age | By Pavan Kaushik | 13th August, 2018

Asia-Pacific battery market is expected to grow significantly in the coming decade as a result of increased electrification activities in the region. Countries like Japan, China, and South Korea are leading the market in the region and countries such as India and Australia have shown tremendous growth in the past few years. Global battery market is expanding. The growth is coming from both automotive and industrial sectors powered by usage in telecom, railways, power and other industrial applications.

Primarily, batteries are divided into two categories - primary and secondary. Primary batteries are used once, and then discarded. They have the advantage of convenience and less cost per battery, with the downside of costing more over the long term. Generally, primary batteries have a higher capacity and initial voltage than rechargeable batteries, and a sloping discharge curve. Most primary batteries do not presently require special disposal.

Secondary batteries are the rechargeable batteries. They have the advantage of being more cost-efficient over the long term, although individual batteries are more expensive. Generally, secondary batteries have a lower capacity and initial voltage, a flat discharge curve, higher self-discharge rates and varying recharge life ratings. Secondary batteries usually have more active (less stable) chemistries which need special handling, containment and disposal. Ni-Cd and small-size Lead Acid batteries require special disposal and should not be simply thrown away.

Whenever the question of dependability and inexpensive batteries will be raised, including the cost-per-watt base, Lead batteries will stand out as the first preference. There would definitely be an advantage to Zinc based batteries in home-office sector, being more environment friendly. Ultimately, market will drive the demand, and the market of automobiles, UPS and electrification storage is set to grow mammoth across the world.

In February 2018, experts at Advanced Automotive Battery Conference in Germany indicated that Lead batteries will remain the dominant battery technology on the world's roads for the foreseeable future.

The growth in passenger car, commercial vehicle and motorcycle industry, along with growing application of energy storage, is expected to drive industry demand for batteries. Increasing requirement of UPS in industrial sectors including oil & gas, manufacturing, chemical, and healthcare has further spurred batteries demand.

It is also true that Lead Acid batteries have over 150 years of existence. Invented by the French physician Gaston Planté in 1859, Lead Acid was the first rechargeable battery for commercial use. Despite its advanced age, the Lead chemistry continues to be in wide use today. There are good reasons for its popularity; Lead Acid is dependable and inexpensive on a cost-per-watt base. There are few other batteries that deliver bulk power as cheaply as Lead Acid, and this makes the battery cost-effective for automobiles, golf cars, forklifts, marine and uninterruptible power supplies (UPS).

The global Lead Acid battery market size was valued at USD 46.6 billion in 2015 and is expected to reach USD 84.46 billion by 2025, according to a new report by Grand View Research, Inc. Expansion of the automotive industry in China, India, Brazil, Mexico, South Africa, Indonesia, and Germany is anticipated to

drive industry growth. Furthermore, increasing utilization of energy storage systems and UPS in industries including mining, oil & gas, nuclear power, electricity generation, gas turbine, construction, hospitality, banking, manufacturing, and off-grid renewable is anticipated to drive Lead acid battery demand over the forecast period.

Transparency Market Research projects the global UPS market to rise at a CAGR of 7.5% between 2017 and 2025. India's UPS market has been forecast to grow at a CAGR of more than 9% by 2023.

The grid structure of the Lead Acid battery is made from a Lead alloy. Pure Lead is too soft and would not support itself, so small quantities of other metals are added to get the mechanical strength and improve electrical properties. The most common additives are Antimony, Calcium, Tin and Selenium. These batteries are often known as "Lead-antimony" and "Lead-calcium."

But with that, there are certain drawbacks as well. Lead Acid based batteries have low specific energy, poor weight-to-energy ratio, slow charge, fully saturated charge takes 14-16 hours, must be stored in charged condition to prevent sulfation, limited cycle life; repeated deep-cycling reduces battery life, flooded version requires watering, transportation restrictions on the flooded type and not environmentally friendly.

There has been a debate on whether the Zinc batteries will overtake Lead batteries in the automobile sector. Many researches are being conducted throughout the world and there seems to be a sharp analysis of pros and cons.

Advocates of Zinc based Batteries

A Canadian commodity research firm has said that older Zinc battery technology could be a more efficient grid-scale energy storage solution than the much-hyped Lithium equivalent, possibly boosting demand for a metal.

What is not normally considered by investors is the possibility that a boring base metal might become an exciting technology metal. It is believed that this is precisely what may happen in the next few years to Zinc, as various firms bring their inexpensive Zinc-air stationary batteries to the market as a cost-effective grid-storage technology.

Zinc-air batteries can become a serious player in the grid-storage market and then technology investors will also have to begin to look at Zinc in the same way that they have begun to look at Lithium and Cobalt.

In the last few years, several Zinc battery companies have made strides in overcoming problems with their electrically-rechargeable Zinc-air batteries that make them not only viable

entrants in this space, but, arguably, the best such storage devices, outpacing flow batteries and all other technology.

Stormcrow's report says, "The Zinc metal demand from 4,404 GWh of Zinc-air battery storage would be roughly 19.8 million of metal. This amount of metal represents roughly 1.5-times the annual production of Zinc metal in the world. We should bear in mind that these batteries will be deployed over time, smoothing out demand. Even so, we could see as much as 3-6% annual impacts in demand in the future."

"Right now is the time to grab the market and take this global approach," Craig Wilkins, founder and Vice President of business development at ZAF Energy Systems Inc., told the audience at the International Zinc Association conference.

Craig Wilkins also believes that Zinc is in prime position to capture the battery market because the Lead Acid market is "stressed". Lead Acid batteries have been around for nearly 150 years "with no significant improvements to the technology."

New battery chemistries that include Zinc are ready for large-scale deployment in the energy storage industry, as the materials now meet the necessary criteria to achieve widespread adoption.

The two ZAF-developed battery chemistries that include Zinc are Nickel-Zinc batteries, for motive and stationary storage applications; and Zinc-air batteries, for logistics, consumer electronics, military and motive applications.

Craig Wilkins in the conference also spoke that Zinc batteries have the potential to open a large market for the metal, since they now meet the five critical factors needed for widespread adoption. First and foremost is cost.

The chemistries and materials in construction must be inexpensive and meet the cost/benefit threshold of targeted markets. Indeed, the cost of Zinc per trillion watt-hours (Wh) is \$1.5 billion, far below the cost of competing materials. The cost of Lead per trillion Wh is \$4.3 billion, Vanadium \$61.9 billion, Nickel \$9 billion and Lithium \$6.3 billion, Wilkins said.

Another leading factor is safety—the chemistries must be safe and free from toxic materials. If Zinc batteries gain acceptance, they'll be placed in homes, schools and businesses, among other locations, where safety is a chief concern.

"Safety becomes more important as it comes close to populations," he said.

The public perception of Lead is shifting to a more negative outlook, lending credence to the adoption of Zinc as a safer alternative. The public perception is going against Lead, and public policy is starting to go in that direction. With the exception of Copper, Zinc's competitors in the

market aren't available in great supply. The world is laden with Zinc and Copper, but it won't be cheaper to build batteries out of Copper.

Approximately 230 million tonnes of Zinc are available globally in commercial reserves, with 14 million tonnes available in the United States alone.

Meanwhile, global commercial reserves for Lead total 79 million tonnes, Nickel 71 million tonnes, Vanadium 13 million tonnes and Lithium 10.1 million tonnes. The cells, manufacturing and chemistry of the material must also be scalable.

"If you are going to go big, you have to look at the scale of the chemistry and the ability to turn it into large applications. Finally, the product's chemistry and its system must cater to a variety of services in order to impart the maximum economic benefit. It has to service different markets. We tend to see a performance gap in existing technologies to meet energy storage needs" Craig Wilkins added.

Recycling of Lead Batteries – the Game Changer

Battery recycling is the process of recycling used batteries from various sources, preventing them from going into municipal wastes and landfills for disposal. Almost all household batteries, battery packs from mobile phones, power tools, laptops & remote control units, and car batteries can be recycled. Batteries comprise several toxic and hazardous metals and heavy metals such as Lead, Mercury, Nickel, and Cadmium. These can contaminate soil or underground and surface water resources if they go into landfills. Battery recycling prevents the degradation of environment and potential health hazards caused from disposed batteries.

The global battery recycling market was valued at USD 8.10 billion in 2016 and is projected to reach USD 11.83 billion by 2022, at a CAGR of 6.5% from 2017 to 2022. The market is expected to witness growth in the coming years, owing to the large number of batteries in-use and stringent environmental regulations by the local and national governments in the battery recycling market.

Lead Acid battery chemistry is expected to be the fastest-growing chemistry segment of the global battery recycling market.

Lead is a highly recycled material. It can be recycled infinite number of times.

Lead Acid batteries are among the world's most recycled product and account for over 80.0% of the worldwide Lead usage with high recycling rate across the globe.

Lead batteries have achieved around 99% of recycling rate in North America and more than

According to the battery recycling market report, one driver in market is widening Lithium supply demand gap. Although there is an adequate amount of Lithium resources available globally to cater to the demand, almost 70% of the global Lithium reserves are concentrated in South America's ABC (Argentina, Bolivia, and Chile) region. Owing to the sparse accessibility of the raw material (available only in geography) there

The companies are the key players in the global battery recycling market: Call2Recycle, Exide Technologies, Gravita India, and Johnson Controls. Other prominent vendors in the market are: East Penn Manufacturing, ENERSYS, Umicore, Retrie Technologies, G & P Batteries, The Doe Run Company, Gopher Resource, RSR Corporation, Terrapure Environmental, COM2 Recycling Solutions, World Logistics, Aqua Metals, Raw Materials Company, Engitec Technologies, and Vinton Batteries.

The proliferation of electric vehicles and renewable energy sources is driving demand for rechargeable batteries that store and deliver large amounts of energy safely, efficiently and

The mild hybrid market is largely expected to dominate in Europe and outside of China, there is no path to a full electric vehicle market of any size according to experts of electrified vehicles gathered in Germany last week.

The final question remains - Will Lead Retain its Sheen in Batteries? Probably Yes. Whenever the question of dependability and inexpensive batteries will be raised, including the cost-per-watt base, Lead batteries will stand out as the first preference. There would definitely be an advantage to Zinc based batteries in home-office sector, being more environment friendly. Ultimately, market will drive the demand, and the market of automobiles, UPS and electrification storage is set to grow mammoth across the world.

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WILL EV BATTERY SEGMENT TAKE THE 'LEAD'?

Hindustan Zinc CEO says Lead batteries will withstand competition in the e-vehicles market

Published in Hindu Business Line | By Satya Sontanam | 27th August, 2018

With the evolution of the e-vehicle market, demand for its inputs, too, has spiked in the past few years. More specifically, demand for batteries is forecast to see significant growth.

Alongside, confusion over what variant of battery — lithium, cobalt, nickel or lead — need to be used in e-vehicles has also surged. Doubts on whether lead could stand competition from other metals such as lithium has clouded the future of the bluish-white metal.

Sunil Duggal, CEO of Hindustan Zinc, believes lead batteries will not lose its sheen in the e-vehicles market. Excerpts from an interview with BusinessLine:

What kind of growth do you see in the demand for hybrid and e-vehicles?

Positive sentiments around e-vehicles have been building up over the past decade. According to a Citi Research report, hybrid and EVs currently constitute about 5 per cent of total car sales, and it is likely to grow to 9 per cent by 2022. Investments are pouring in from governments as well as the private sector for research in energy storage technologies (batteries).

There are many metals such as lithium, cobalt, nickel, graphite and manganese competing with lead and zinc to be used in e-vehicle batteries. Where does lead fit in this equation?

Lead-acid batteries are used in e-rickshaws, e-bikes, etc. It is slightly different in electric cars. In e-cars, the auxiliary battery is lead-acid-based, while the motive power battery has to be from a newer technology based on metals such as lithium and nickel, as they have better energy density (energy-to-weight ratio). But these technologies are still in the nascent stage when it comes to commercial viability.

Also, lead-acid batteries have the ability to overcome its weakness (low energy

density) with its cost competitiveness, safety, availability of raw materials and recyclability. Immense technological research is going in improving lead-acid batteries.

We believe the demand for lead acid will continue to be strong.

There are reports that lead usage will plummet due to stronger demand for lithium-ion batteries...

The developments in Li-ion batteries is recent, but lead-acid batteries have been here for many decades.

Considering the cost and various technical parameters, lead-acid batteries will continue to be the preferred energy storage device, and their demand is not expected to fall.

The global reserves of lithium are quite limited and restricted to a few countries

in South America.

So higher demand for Li-ion batteries may not be met easily. Also, the recycling technology and reverse-supply chain for Li-ion is still not fully in place, unlike lead acid. Further, high temperature application of Li-ion batteries have not proven reliable.

It is not widely known, but all hybrid cars and EVs use lead-acid batteries — even though they are slightly smaller — for auxiliary power.

What is the overall demand and supply situation and forecast for lead? Will the prices go back to the high of \$2,500-per-tonne levels seen in February?

The overall global demand-supply for lead for 2018 is balanced as per leading industry research firm Wood Mackenzie. Consumption is forecast at 12.671 million tonnes (mt) and production at 12.625 mt, which shows a balanced market.

It is estimated that global lead consumption will increase at an average 2-3 per cent pa in the next five years.

The prices of lead are expected to be robust due to limited global supply of lead concentrate supply.

Profile

Sunil Duggal is also President of the Federation of Indian Mineral Industries. He holds positions in the International Zinc Association, FICCI and the Indian Lead Zinc Development Association.

Meet the CEO

Will EV battery segment take the 'lead'?

Hindustan Zinc CEO says lead batteries will withstand competition

SATYA SONTANAM

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Annanya Agarwal

President, Vedanta Football Project

“ Our vision is to develop 10,000 players in Rajasthan alone and focus on developing women football players from the rural areas. ”

Immense Talent in Rural India, We Need to Scout Them

Published in Asian Age | 22nd September, 2018

Hindustan Zinc officially launched the project “Zinc Football” to bring forward rural football enthusiasts in Rajasthan and train them for playing national and international football tournaments on 21st September, 2018. The logo of the project “Zinc Football” was also launched by Sunil Duggal, CEO of Hindustan Zinc, Annanya Agarwal, President of Vedanta Football Project, Vishal Bansal, IG Udaipur and Bishnucharan Mallick, Udaipur Collector.

Annanya, who himself is a young football enthusiast and has been following all national and international football tournaments, believes that India has immense talent in football sports but we are not able to convert these talents into professional players due to lack of infrastructure and right training. He believes that there has to be a mechanism to scout football talents from deep rural areas and bring them in the forefront. Asian Age spoke to Annanya Agarwal, the son of Navin Agarwal, Chairman of Vedanta Limited, on his vision for setting-up football academies for both boys and girls in India and his way forward.

“It takes about 10 years for a football player to compete in national and international football tournaments. But irony is that in India in 10 years a player plays about 80 matches as compared to about 250 matches abroad. The difference can be seen in fitness and strength. In India, the exposure to players is very less and this exposure can be seen when players are on field. If we need our players to win matches and participate in international football tournaments, we have to make them play many more matches”, says Annanya.

He believes that it is not just about playing football, it is the right training, nutrition, physical built, exposure and introduction to global technology that measures the players strength, technique and ability. India can't be far behind when it comes to facilities.

He says, “The right age of catching children if you want them to play for India is 5-12 years. I have this vision that India should play 2026 football world cup. And for that corporates like Vedanta have to come forward and provide long lasting and sustainable infrastructure.”

“Women football teams have fared much better even if there is not much infrastructure available for them in the country. Even though we have 30 boys in Zinc Football Academy in Udaipur, I have strong focus on bringing women football players forward and provide them excellent infrastructure both in Udaipur as well as in Goa. I want to pioneer women's football team in India” Annanya says.

In Rajasthan, Hindustan Zinc has searched for talents while going deep in the rural areas. 4500 of children were scanned and finally 30 children were shortlisted. The company has opened up 64 Community Football Centres, known more as Zinc Football Schools and have developed Zinc Football Academy at Zavar, a tribal area about 45 km from Udaipur. 30 children are being trained in this academy that is fully supported by Hindustan Zinc who have also taken the responsibility of giving scholarships to all the students for their education.

Annanya Agarwal – President, Vedanta Football Project

Immense Talent in Rural India, We Need to Scout Them

New Delhi

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VISITS TO HINDUSTAN ZINC



Mr. Kuldip Kaura - Former CEO, Vedanta Group visited Hindustan Zinc on 2nd & 3rd August, 2018. During his visit, he went to Sindesar Khurd Mine with the Senior Management of HZL. He also interacted with Leadership Team of Head Office and Rajpura Dariba Complex along with young talents of HZL. He witnessed some of the flagship CSR programs of the company.



Mr. Srinivasan Venkatakrishnan - CEO, Vedanta Group visited Rajpura Dariba Complex on 10th & 11th September, 2018. He went to Sindesar Khurd Mine and visited Dariba Smelting Complex. He interacted with Leadership team and young talents of Hindustan Zinc during his visit. He was also briefed on the various CSR interventions through an exhibition organized by the CSR team.



Advisory Board, Vedanta Group - Mr. Ranjan Mathai, Mr. V.K. Chhibber and Mr. U.K. Sinha visited Sindesar Khurd Mine on 28th & 29th August, 2018. Mr. Rajagopal Kishore Kumar - Director, Strategy and Business Development and Ms. Anupama Airy - Consultant, Corporate Communication also accompanied them. They visited various CSR Projects - Samadhan, Nand Ghar and Sakhi at Rajpura Dariba Complex.

'Jashn-E-Parwaz' entertains Udaipur with its Melody

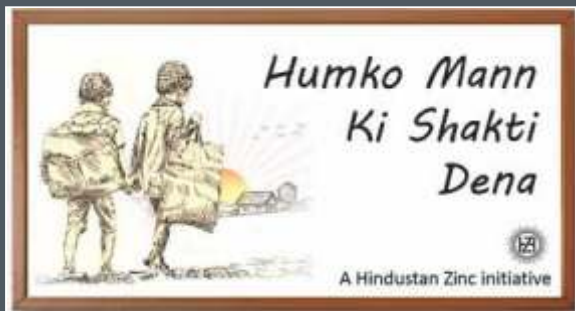
Hindustan Zinc in association with Srajan the Spark organized the 4th chapter of Jashn-E-Parwaz on 28th and 29th September, 2018 at Lok Kala Mandal, Udaipur.

A press conference for this event was conducted on 25th September, 2018 at Hindustan Zinc Yashad Bhavan. The conference was attended by Mr. Sunil Duggal - CEO, HZL, Mr. Amitabh Gupta - CFO, HZL, Mr. P.S. Talesra - Chairman Srajan the Spark, Mr. Abbas Ali Bandoorkwala - Secretary Srajan the Spark, Mr. G.R. Lodha - Chairman Jashn-E-Parwaz Chapter 4, Mr. Rajesh Khamesra - Program Convener, Mr. Praveen Jain - Head Corporate Relations, print & electronic media of Udaipur and employees of Hindustan Zinc.

The event night was graced with the magnificent performance by the Padmashree ghazal singer, Pankaj Udhas on 28th September, 2018. The event was followed by a poetic symposium - 'All India Mushaira' on 29th September, as a confluence of art lovers and bards. This year, 'The Srajan Lifetime Achievement' Award was presented to Shri Yogesh Ji who is the man behind the lyrics of famous movies like Anand and Rajnigandha. The Hindustan Zinc – Srajan Award 2018 was awarded to the Prominent Music Director Duo – Anand & Milind, who have composed over 200 Bollywood songs. The other recipients of the Srajan Kala Prerak Awards, for their commendable work were Srajan Amir Khusro Award – Ghalib Institute, New Delhi, Srajan V.D Paluskar Award – Meera Kala Sansthan, Chittorgarh, Srajan Khemchand Prakash Award – Kaustubh Pingle, Dubai, Srajan Omkar Nath Thakur Award – Pt. Bhavdeep Jaipurwale, Mumbai and Srajan Kamal Kothari Award – Riaz A Tehsin, Udaipur.



“Education is the foundation to everything. Without Education there is no Wisdom; without Wisdom there are no Morals; without Morals there is no Development. Good Education can fix all the above said problems...”
- Jyotirao Phule, Indian Activist ”



Young Brigade of Ajmer

It was June 2015, on the request of Location Head – Kayad Mines, we had decided to visit Kayad and Gagwana villages in Ajmer, as part of our Project Sakhi.

We started our journey taking blessings of Ajmer Dargah. There was a challenge, since we were told that the two villages that we were looking to align for Sakhi Project had difference of opinion and certainly this was creating a little palpitation in our hearts. But looking at the philosophy of Hindustan Zinc we were sure that we would be able to work together.

The road to Kayad and Gagwana were not easy. At one point, here too the four wheelers refused to move further. But we had to find our own way to reach out to the people. Finally, we reached a house where we had already established a spice making cluster under Project Sakhi and found the women making the best of spices. We could also see almost 80-90 young women waiting to interact with us. We were happy to see the representation by both the villages – Kayad and Gagwana. Mahesh Mathur, our CSR Head at Kayad Mines and his team of coordinators were reasons to bring women of both the villages together.

But, as we started explaining our Project to these young women, who later I addressed them as 'Young Brigade of Ajmer', had a different thought in mind. Before even we could discuss anything further, they had placed their requirement for drinking water, if not demand. We could sense their belief that only Hindustan Zinc can help them out even though the responsibility may lie with the Government.

It was a matter of belief rather than who was supposed to do. It was not under the 'Rule', it was the 'Rule of Faith' in Hindustan Zinc. While Mahesh addressed the water issue, in consultation with the unit Location Head, they started listening to what we had in mind for their economic empowerment. We wanted to develop a Fashion Cluster under our Project Sakhi.

Their creative skills were immense, but they still had to undergo skill training exercise. RAM was decided the venue for conducting the skill test. As we had anticipated, without any training, or any guidance so far, this 'Young Brigade of Ajmer' had surprised everyone with their skills, patience, passion and commitment. And integrity beyond doubt.

Truly, some are born talented. This is the day when the Cluster of Fashion Garments Designing was born. 60 identified young women were all set for professional training under the Sakhi Project. Next we had to identify was a set of trainers, fashion stylist, fabric experts, embellishments and other resource people.

The vision and the mission was set. These 60 young women will make 60 Fashion Garments in flat 60 days' training. All the infrastructure was set in order. There had to be minimum wastage of fabric and thus, the trial fabric was used to polish hands. The life was all set to change for this 'Young Brigade of Ajmer'.

Many rounds from Udaipur to Ajmer were taken. Many bottlenecks were removed and many were involved towards ensuring the success. And the day came – 29th October 2015. India witnessed its first show of garments directly made by the 'Brigade of Ajmer' who had shown the world their art and skills. Many Rajasthan Government Ministers, Bureaucrats, Opinion Makers, Fashion Designers and a number of fashion students attended the show.

Irrespective of any media tie up, all the Jaipur media including Print, Electronic, News Wires and Fashion Websites came together to witness and provide extreme exposure to the skills of the 'Young Brigade of Ajmer'. I remember, for the first time they had faced cameras to give live interviews on various channels. The entire Ajmer was proud of their achievement.

Their economic empowerment did take place as part of the project but most important was that Hindustan Zinc could make them self-reliant and had opened a new door for them for their economic empowerment.

Its 3 years, but the memory stays. More of satisfaction of doing greater good for the society.

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The Road to the House of Kaisi Bai

This is about 2014 - and we were working on the Sakhi project and meeting rural and tribal women in all the districts where Hindustan Zinc operates. There was a passion and determination to bring economic empowerment in these women. We were in the village of Karget in Udaipur and searching for our CSR Star – Kaisi Bai. She had emerged as an inspiration for Gudwa rural women on economic empowerment. The roads going inside the village tested the vehicle as much as our patience. And then a point came when our vehicle refused to move and the driver raised his hands. For the driver, our Kaisi Bai was not important and for us the driver was not important. So we got down from the vehicle and started walking. In India the houses in villages are still searched with landmarks rather than house numbers and the people are more prominent than location of the house. Kaisi Bai seems to be not that popular. Finally we could meet a rural woman who gave some direction to Kaisi Bai house. It was towards few houses on a small mountain. We were excited since we were about to meet Kaisi Bai who had become a symbol of success of Hindustan Zinc CSR program. Finally, we located her. There was no concrete boundary around her house as the entire boundary was made of dried bushes. Her house had no doors as she had nothing to be taken away. Every day there was a fear of Leopards who came almost daily.

We saw Kaisi Bai sitting with her goats and feeding them. We could also see few cows. We greeted her with 'Khammaghani' and she smiled. She was a beneficiary of Hindustan Zinc Goatery project. We had provided her a unit of 6 Sirohi Breed Goats, which include one male and 5 females. 50% of the cost was borne by her and rest by Hindustan Zinc. The Sirohi Breed goats are special for their fast growth and generally deliver twins. Each goat gives about a litre of milk which is used for children or selling. The Goatery Project had given a life of dignity to Kaisi Bai. Her economic condition was stable We could see a television in her house. Her family was neatly dressed and her house was hygienic. She made us drink the goat milk. We all had never tasted it before. We were scared but trusted her. It was a long story of struggle and success. Her determination was an example for many as she informed that many rural women have been benefitted from the Goatery project now. While taking permission to leave after a wonderful time, we could see she was very happy. With folded hands we departed.

I could not resist coming back to her and asked her – “Has she ever met the Chief Minister of Rajasthan”. She replied – “She has not even seen her.” I was very excited to inform her – “Kaisi Bai – soon you would be receiving award under Hindustan Zinc Sakhi Project for being a role-model for many rural women who have changed their economic condition through Goatery Project. And you would receive your award from Smt. Vasundhara Raje, the Hon'ble Chief Minister of Rajasthan.” The day came – it was 8th January, 2015 and she did receive award from the Hon'ble Chief Minister. Our Chairman had travelled from London to be part of this event. Her eyes searched for us and we searched for that satisfaction which always made us part of the community. We had changed a life who earlier used to work on daily basis for construction of roads. We had travelled to meet her – a road to the house of Kaisi Bai.



The Messiah of Mehenduriya Sr. Secondary School

We were in Rajsamand for some work and were searching for Mehenduriya Senior Secondary School. While asking a number of people, we met with this gentleman who extended his help as he knew where this school was. A bright mind with a beautiful heart, could not understand why God made Sanjay a physically challenged. Some questions have no replies. We gave him lift and readily agreed. Sanjay was from village Anjana and while talking he informed that he had done B.Sc. - B.Ed from Sukhadia University, Udaipur and has been always interested in teaching. He has been doing teaching since his college days. In his initial days he taught primary school but always wanted to teach senior classes. The village roads were not allowing us to take speed so we had plenty of time to speak with each other. Sanjay continued, “there was also a time, when I was shuffling with some other teacher and got relocated to another school in Gawardi Village. But my students became emotional and did not allow me to change the school. The management had no option but to transfer me back to my previous school, he smiled with a feeling of pride.”

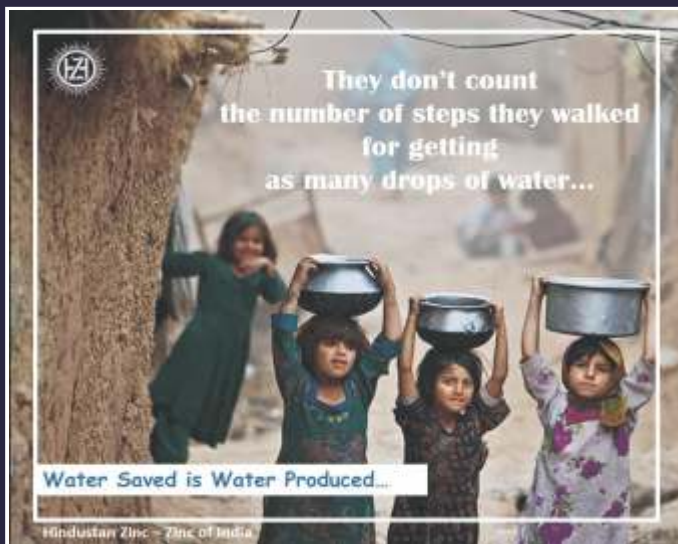
While talking to him it was clear that Sanjay had a good knowledge of the subject. He also informed that he is emotionally attached with his students and does everything that is possible to teach them. He has a 3-wheeled vehicle and he commutes every day on his own. Today since we had taken his help so were obliged to drop him back as well. Suddenly he pointed his finger and said, “sir, the school has come. This is Mehenduriya Senior Secondary School.” We were excited to enter and meet students and teachers. As we entered the class, the entire class stood up and greeted – Good Morning Sir. We were surprised, but more surprised when we realised that actually all the students had stood up to greet Sanjay, the teacher. Actually, Sanjay was the same teacher we had come looking for to speak to him from Udaipur. He is the same teacher, associated with Hindustan Zinc Shiksha Sambal program and had already taught 5 batches with 100% result. We asked him, why he did not tell this before – he smiled and said, “Sir, how could I miss meeting and speaking to the people of the organization who has made me independent and self-reliant and I have earned so much of respect. I never thought someone from as far as 100 km will come to just meet me. I am a simple teacher that has been attached with Hindustan Zinc Shiksha Sambal project since 2009 and have been teaching Maths to the students of 8th, 9th and 10th. Currently, I have 31 students in his 10th class and 51 students in his 9th class.”

Hindustan Zinc started Shiksha Sambal program way back in 2008 and this program has been able to change lives of over 50,000 students. Hindustan Zinc has Shiksha Sambal program running in 59 senior government schools located in communities around the company's operations - in Ajmer, Bhilwara, Chittorgarh, Rajsamand and Udaipur. Shiksha Sambal reaches out to over 6500 students from classes 9th to 12th.



Manthan

Sustaining Life on Earth



“We are living on this planet as if we have another one to go” – do we actually have? No one from outside is going to come to care for our planet on our behalf. Awareness and knowledge are the keys for making tough decisions.

With this thought, the CAMPAIGN – “**MANTHAN - A View Point - Sustaining Life on Earth**” has been launched from July 2018 to primarily bring in a sense of responsibility amongst everyone towards Sustainability. Every month, Manthan will present creative thoughts with knowledge perspective about one theme on Sustainability.

The theme for August 2018 is **WATER** and for September 2018 is **AIR POLLUTION...**



MANTHAN Sustaining Life on Earth

- Water
- Wildlife, Forest and Nature
- Energy and Fuel Conservation
- Climate
- Education and Empowerment
- Pollution Control
- Plastic Recycle and Reuse
- Safety

BE SAFE *Zindagi*

"BE SAFE ZINDAGI" is an effort to make all of us understand that it is not necessary that we have to pass through a process of incidents to learn the essence of safety, we can absorb learning from the experiences of others as well. And we should.

"BE SAFE ZINDAGI" presents stories of our employees, including senior management - about their personal experiences on road safety, industrial safety and personal safety. These stories will be a learning for all HZL employees and their families.

The Fear

We met this old lady while we were working on the Sakhi project for women empowerment. She was sitting outside her muddy house and watching us speaking to a whole lot of rural women in the village. Watching all of us from a distance she was feeling quite content. Her age was the grace for the entire village. If you see the texture of her skin, you would know that she represented the mother earth... the texture of the wall was enough to mix with the texture of the skin...

She was calm, peaceful and sitting alone. A little conversation and she narrated the meaning of life. She conversed me in Mewari language but I could understand what she said. I had asked her one simple question - "How are you and how has been your life...". She began by saying that - "Life has been very good. I have many sons and they all have been married. My daughter has also been married. All have children and are living happily. I have this satisfaction that all my children are happy and they take good care of me. Children are very important for me even when I have grown so old and I don't know when I will leave for the sky... but I want all my children to be happy, prosper in life and become good humans...all my children come and meet me.. some stay with me and some in different houses in the village..."

All I could listen from her was her children.. children.. and their children.. She had nothing to speak ... And when the same children do something that can endanger their lives, what happens to such old parents. We came to know that in this village 3 young brothers had died in a motorcycle accident. The old grandparents could not bear the loss and could not live further. The accident had happened on the highway when the youngest brother took the motorcycle, making both the elder brothers sit behind, and took the risk of overtaking a speeding Scorpio (SUV).. the race went out of control and the three brothers hit a railing and profusely bled. No one came for their help. All three died in hospital, leaving behind an extreme fear in the village... This FEAR stays in the heart of this old lady and she just prays for the well-being of her children. And, this picture stays with me since then and her FEAR also stays with me since then...

NEED WE SAY - BE SAFE *Zindagi*



We all have pledged to bring a change in Hindustan Zinc by transforming it into a ZERO HARM organization. "BE SAFE ZINDAGI" will focus on emphasizing the essence of safety within the premises and outside the premises and to ensure that the concept of safety is not just preached but practiced as well, after all, our safety is our responsibility...

Be Safe Zindagi is one step towards achieving the vision of ZERO HARM.

"BE SAFE ZINDAGI" you get to live only once....

The JOY Ride

When adults imitate children it looks strange. Often we have seen children imitating adults.

The children might be enjoying the ride, not knowing the consequences of a slight sharp turn or sudden application of brake. On the other side, the gentleman sitting are quite aware of the risk being taken and the consequences.

Look at the pictures above, and we thought only kids do mistakes. This adventure seems to be short lived. This only shows the scantest of regard for all the rules and regulations on road safety. We have stopped learning from mistakes. We have stopped worrying about consequences. We enjoy taking risk. Risk of 'Known'. Unless one passes through the drastic consequences, the lessons seems to be never learnt.

One actually fails to understand how do you communicate with such people. You confront them and they would come back to you saying - its ok - children are enjoying or - its ok - I have no other option since I am getting late or we have this collective auto-ride.

This is a sobbing opera of road safety and unless there would be multi-punishment system, these joy rides would never change. Let the law cancel the licence of the parents of these children and let the law cancel the licence of these auto-drivers. But we already have the law.. so matter comes to implementation.

So finally it comes to US, the WE. Do we have time for such matters to discuss with our children or we have enough of excuses.

Can we ensure that our children do not engage with such adventure or we become party to it?

'Sorry' is a word - it does not convert a 'lifeless' into a 'living legend' and neither reverses an incident - read accident.

NEED WE SAY - BE SAFE *Zindagi*





HINDUSTAN ZINC

Zinc of India

We All Have Zinc In Our Lives...

India's Only And World's Leading Zinc-Lead-Silver Producer

New Website Launch...

Hindustan Zinc has launched its new website - **www.hzlindia.com** - the driving source being - We all have Zinc in our Lives.

As you click on the website you would see some full-length broad pictures of Hindustan Zinc operations highlighting the excellence of business in Mines, Sustainability, CSR, Zinc, Lead and Silver. The Home Button (bottom left) can be clicked at any time to reach to Home Page. Once on the Home page, each tab when clicked opens into a separate web-link with specific information. All sub-tabs open into separate web-links to make the visuals attractive and information readable, making the reach easier and readability faster. Average time of access and time-spent on the website has also been assessed.

The new website has been designed keeping in view easy flow of information relating to Business Branding, CEO Positioning, Sustainability, CSR and all information about Zinc News. The pages are designed in such a way that it gives easy access to the verticals. With limited Tabs on the Home Page, the website makes the flow of information easier.

Broadly :

- CEO Section – CEO Twitter has been aligned live and any tweets done by CEO or retweeted would appear in this section.
- The highlight section will provide 6 highlights that are current and would be manually managed by our team.
- Zinc in News section will give you link of the news that are being uploaded in the News Section pages inside.
- We have our Leadership Team under the 'About HZL' tabs.
- Share Price and LME have their designated space.
- Financial Results – Customers Zone – Vendors Zone – Reports and Publications have their own space on the bottom right.

Please have a visit to the website of Hindustan Zinc - **www.hzlindia.com** .



Exploration is often described as trying to find a needle in a haystack in which case it would be valid to ask 'why do we do it?'. The short answer is that the rewards can be outstanding for those companies that are successful as exemplified by Hindustan Zinc (HZL).

The company's exploration vision is to deliver and maintain Reserves and Resources sufficient to underpin its metal production for more than 20 years and to also make new discoveries which provide new growth opportunities.

Since Vedanta's acquisition of HZL in 2002, the company has been one of India's largest and arguably its most successful explorer. Exploration has resulted in the company's Reserve, Resource and metal inventory increasing significantly even after growing annual mining depletion (see below; Mt = million tonnes). This exploration success has underpinned HZL's world class metal production growth over the last 15 years.



The keys to HZL's exploration success have been its financial commitment, persistence, people, partners and its willingness to adopt new technical innovations and ideas.

Companies with successful exploration track records typically have a sustained financial commitment to exploration over many years, that is, they are persistent. Hindustan Zinc is no exception with the company providing annual exploration budgets which enable the exploration team to conduct the necessary work to deliver on its annual and long term objectives.

HZL has built and retained a diverse core team of highly talented explorers whose ideas, program design & execution skills and willingness to adopt new technologies has resulted in continuous R&R growth and new discoveries. The team has a range of specialist skills in geology, geochemistry, geophysics, remote sensing, GIS and exploration management, all of which are necessary for the execution of high quality exploration. Continuous improvement and keeping abreast of industry innovation is a priority and team members receive regular training across a range of exploration topics by both Indian and international experts.

Exploration is a high risk ideas business much like any R&D activity. An idea on where to find an orebody (commonly referred to as a 'prospect') is developed and then an exploration program is designed and executed to test this idea. The first stage of exploration is simply to test the validity of the idea and if the initial results are positive, the prospect will be evaluated in more detail. If the exploration work continues to provide positive results then the work will ultimately result in the delineation of an orebody which can be mined. This process typically takes a number of years and utilizes a wide range of sophisticated techniques.

During the initial prospect identification and early exploration stage HZL's exploration typically includes detailed geological mapping, sampling of rocks, soils and stream sediments and geophysical surveys. The samples are analyzed by outsource partners in purpose built laboratories down to parts per million levels and in some cases as low as parts per billion. To give a perspective on the sensitivity of this analytical work, one part per million is roughly the equivalent of 2-3 pin head size grains in one tonne of rock.

Geophysical surveys are used to measure the physical properties of the rocks using airborne, ground and downhole techniques. Magnetics, gravity, electromagnetic and electrical surveys are carried out by HZL's in-house geophysicists or specialized outsourced partners using state of the art equipment depending on the technique used. The data produced from these surveys is processed and modelled using sophisticated specialized software and then interpreted and integrated with the other exploration data to come up with drilling targets.

The final and most conclusive testing is done using drill rigs and HZL Exploration drills more than 140km per annum. Like most of HZL's analytical and geophysical work, drilling is outsourced to technical specialist companies that produce core samples which are then geologically logged, sampled and analysed. HZL was the first company in India to introduce modern high speed drilling rigs and it has continued to adopt the latest drilling technologies such as motorized directional drilling which enables it to intersect orebody extensions at depths of more than one kilometer below surface. Once sufficient drilling is done on a prospect then all of the data is compiled, interpreted and modelled by resource estimation experts using specialized software such as Leapfrog and Datamine and Reserve and Resource estimation is carried out.

In conclusion, exploration is a high risk, high reward business with no guarantee of success. Hindustan Zinc however, through its exploration commitment, strong team, technical innovation and high quality outsource partners has a world leading exploration track record. This exploration success has underpinned HZL's growth to become the second largest zinc miner in the world.

EXPLORATION

Scott Caithness

Head Exploration - Hindustan Zinc

“
“Children should be provided with a free environment so that they are able to gain more and more knowledge by their own efforts...”
 - Sri Aurobindo, Indian philosopher

”

विश्व की तीसरी सबसे बड़ी जिंक खान में पहुंचा भास्कर ये है देश की पहली अंडरग्राउंड माइंस, जहां दौड़ती है एसयूवी



खदान में फोटोग्राफी की मनाही है। भास्कर ने विशेष प्रयास से यह फोटो लिया। भास्कर के दो रिपोर्टर व फोटो जर्नीलिस्ट माइंस में 650 मीटर नीचे तक गए। यहां धरातल से 5 डिग्री सेल्सियस ज्यादा तापमान था। फोटो : प्रेम उपाध्याय

नॉर्द जाट/पंकज पारीक | भीलवाड़ा

खदान के नाम पर हमारे जेहन में एक ही तस्वीर आती है। हाथों से खुदाई करते मजदूर और ट्रॉली में मिनरल भरकर ले जाते हुए श्रमिक। लेकिन ये अंडरग्राउंड माइंस अलग है। यह तस्वीर है दुनिया की तीसरी बड़ी जिंक खान की। यह है आगूचा क्षेत्र की हिंदुस्तान जिंक लि. की माइंस। इसमें 900 मीटर की गहराई पर खुदाई करके जिंक, लेड और सिल्वर निकाली जा रही है।

यह देश की एक मात्र ऐसी अंडरग्राउंड माइंस है, जिसमें एसयूवी गाड़ी में बैठकर एसी का आनंद लेते हुए गहराई में हो रही खुदाई को देख सकते हैं। उत्पादन और तकनीक सभी में यह देश की अक्वल दर्जे की खान है। यहां आस्ट्रेलिया से मंगाई आठ करोड़ रुपए की जंबो मैकेनाइज्ड मशीन से खुदाई होती है, जो 100 फीसदी कंप्यूटराइज्ड है। यहां धरातल से जैसे-जैसे नीचे जाएंगे हर

किलोमीटर पर तापमान में बढ़ोतरी होती है। यहां सांस लेने में परेशानी न हो इसके लिए 900 मीटर नीचे तक एक बड़ा शाफ्ट लगाया गया है। इसके विशालकाय पंखे बाहर से फ्रेश एयर को अंदर खींचते हैं। अंदर से कार्बन डाइ ऑक्साइड को भी बाहर निकाला जाता है। काम करने वालों के साथ हर समय ऑक्सीजन सिलेंडर होता है। खुदाई करने के साथ-साथ छत पर मशीन से सीमेंट का लिक्विड स्प्रे किया जाता है ताकि छत मजबूत रहे और कोई हिस्सा ढहे नहीं। 450 मीटर गहराई के बाद मिनरल शुरू हो जाता है। माइंस में किसी भी तरह की इमरजेंसी में बचाव के लिए निर्धारित दूरी पर रिफ्यूज चैंबर हैं। खदान ढहने या अंदर किसी भी तरह की आपातकालीन स्थिति में एक चैंबर में 20 लोग 36 घंटे तक जीवित रह सकते हैं। एयर कंडिशंड होने के साथ-साथ इसमें ऑक्सीजन सिलेंडर, बिजली, खाने-पीने के लिए भी व्यवस्था रहती है। इस

तरह की माइंस भारत में इकलौती है। विश्व में दक्षिण अफ्रीका, ऑस्ट्रेलिया, ईरान, कनाडा में भी इस तरह की माइंस हैं। जिंक लोहे को जंग रोधक बनाने, मेडिसिन, फर्टिलाइजर, ब्यूटी प्रोडक्ट बनाने सहित रोजमर्रा की अधिकांश चीजों में काम में ली जाती है।

ग्रेडिंग के लिहाज से यह दुनिया की तीसरी बेहतरीन खदान है। पहली उत्तरी अमेरिका महाद्वीप में अलास्का (कनाडा) और दूसरी मध्य एशिया के ईरान में स्थित है। आगूचा माइंस की मेटल वैल्यू 15 प्रतिशत है। यहां 25 मार्च, 1991 में लेड, जिंक की खुदाई शुरू हुई थी। 11 अप्रैल, 2002 में इसे वेदांता लिमिटेड ने खरीद लिया। इससे पहले यह सरकारी उपक्रम था। अभी इसमें करीब 68 प्रतिशत शेयर वेदांता के हैं। हिंदुस्तान जिंक के सीईओ सुनील दुग्गल का कहना है कि इनोवेटिव टेक्नोलॉजी से हिंदुस्तान जिंक को सर्वश्रेष्ठ बनाना हमारी प्राथमिकता है।



चन्देरिया लेड जिंक स्मेल्टर को लगातार चार बार 5-एस अवार्ड

चन्देरिया लेड जिंक स्मेल्टर को लगातार चौथी बार 5-एस रिसर्टिफिकेशन अवार्ड दिया गया। 5-एस कार्यस्थल प्रबंधन के बारे में जापानी अवधारणा को अपनाने पर बल देता है व सेइरी, सेइटोन, सेईसो, सिकेत्सु एवं सित्सुके इन पाँच एस पर आधारित है। जिंक नगर स्थित एकजीक्यूटिव क्लब के सभागार में आयोजित भव्य समारोह में क्वालिटी सर्किल फोरम ऑफ इण्डिया के एकजीक्यूटिव डायरेक्टर – श्री आर. श्रीनिवासन एवं बिरला सीमेंट वर्कस् के अध्यक्ष – श्री राजेश ककड़ ने रिसर्टिफिकेशन प्रमाण पत्र चन्देरिया स्मेल्टिंग कॉम्प्लेक्स का 5 –एस प्रमाण पत्र लोकेशन हेड – श्री विनोद वाघ को प्रदान किया। यूनिट –1 का प्रमाण पत्र इकाई प्रधान – श्री कमोद सिंह, यूनिट-2 का प्रमाण पत्र श्री राजेश लुहाड़िया, यूनिट-3 का प्रमाण पत्र

मानस त्यागी एवं कॉमन का प्रमाण पत्र कर्नल हरि भगवान ने ग्रहण किया। इस अवसर पर यूनिट –2 हाईड्रो-2 ने 5-एस में श्री राजेश लुहाड़िया के नेतृत्व में प्रथम स्थान प्राप्त किया और 5-एस एट होम के तीन श्रेष्ठ परिवारों को भी पुरस्कृत किया गया।

सस्टेनेबल डवलपमेंट के लिए हिन्दुस्तान जिंक पुरस्कृत

हिन्दुस्तान जिंक की इकाई सिन्देसर खुर्द खदान को 'बेस्ट ओवरऑल परफोरमेंस इन सस्टेनेबल डवलपमेंट' के क्षेत्र में वर्ष 2017-18 में उल्लेखनीय योगदान के लिए फेडरेशन ऑफ इण्डियन मिनरल इण्डस्ट्रीज (फीमी) ने 'बाला गुलशन टण्डन एक्सीलेन्स अवार्ड' से पुरस्कृत किया है। भारतीय खनिज उद्योगों के लिए प्रतिष्ठित अवार्ड भारत सरकार के माननीय केन्द्रीय खान, ग्रामीण विकास एवं पंचायत राज मंत्री – श्री नरेन्द्र सिंह तोमर ने हिन्दुस्तान जिंक को दिल्ली में 14 अगस्त, 2018 को आयोजित फीमी की 52वीं आमसभा में प्रदान किया। यह पुरस्कार हिन्दुस्तान जिंक की ओर से श्री राजीव बोरा, यूनिट हेड-सिन्देसर खुर्द माइन एवं श्री दिगम्बर पाटील, प्रबन्धक-एनवायरमेंट, सिन्देसर खुर्द माइन ने दिल्ली में एक समारोह में ग्रहण किया।



RDC received Responsible Business Awards 2018

Rajpura Dariba Complex has received Responsible Business Awards - 2018 in 'Best CSR Practices' Category organized on 6th July, 2018 at Hotel Taj Lands, Mumbai. The award ceremony saw participation of over 200 companies in different categories. The Responsible Business Awards is supported by World CSR Day and World Federation of CSR Professionals.

On behalf of Hindustan Zinc, the award was received by Mr. Abhay Gautam – CSR, RDC and Mr Vinay Agrawal – Process, RDC from Prof. Theodora Mapemba - Vice Chancellor, Share World Open University, Malawi at Hotel Taj Lands.

श्री वी.वी. नन्दावत इनडायरेक्ट टेक्स लीडर ऑफ द ईयर-2018 से सम्मानित

हिन्दुस्तान जिंक के श्री वी.वी. नन्दावत – महाप्रबन्धक एण्ड हेड-अप्रत्यक्ष कर को ट्रांसफोरमेन्स बिजनेस मिडिया ने दो दिवसीय कॉर्पोरेट टेक्सेशन समिट एवं अवार्ड्स-2018 द्वारा मुम्बई में 29 अगस्त, 2018 को आयोजित एक समारोह में 'इनडायरेक्ट टेक्स लीडर ऑफ द ईयर' से सम्मानित किया गया है। इस समिट में देश की विभिन्न कम्पनियों के टेक्स हेड्स ने भाग लिया।



RDC won Gold in Fame Excellence

Captive Power Plant (CPP) at Dariba Smelting Complex won Gold award in Fame Excellence Award 2018, under the category 'Energy Efficient Power Plant'. The award ceremony was held in Dehradun on 1st August, 2018, in presence of Finance Minister & State Urban Development Minister of Uttarakhand. On behalf of Hindustan Zinc, Mr. Manoj Agarwal – CPP Unit Head, DSC received the award.



स्वतंत्रता दिवस पर हिन्दुस्तान जिंक राज्य वस्तु एवं सेवा कर (जीएसटी) के लिए सम्मानित

स्वाधीनता दिवस समारोह-2018 के अवसर पर हिन्दुस्तान जिंक को राज्य वस्तु एवं सेवा कर-जी.एस.टी. लागू होने के प्रथम वर्ष में जिले में सर्वाधिक दायित्व घोषित किये जाने एवं देय कर व मांग का लक्ष्य नियमित रहने के लिए प्रशस्ति-पत्र प्रदान किया गया। यह सम्मान, स्वतंत्रता दिवस समारोह के मुख्य अतिथि राजस्थान सरकार के माननीय गृहमंत्री – श्री गुलाब चन्द कटारिया ने प्रदान किया। यह पुरस्कार हिन्दुस्तान जिंक की ओर से कंपनी के महाप्रबन्धक एण्ड हेड-अप्रत्यक्ष कर – श्री वी. वी. नन्दावत ने ग्रहण किया।



Hindustan Zinc as 1st Indian company registered with CII IGBC for Net Zero Green Building Initiative

Hindustan Zinc Head Office, Udaipur has been registered for nZEB rating certification (Net Zero Energy Building). HZL is the first project registered under IGBC nZEB rating in the country. The prime activity is to optimize the energy and water performance, which will enable the building to consume significant less energy and water than any conventional building.

Bala Gulshan Tandon Excellence Award 2017-18

On the basis of desktop assessment and subsequent presentation before the Jury Committee for FIMI Awards 2017-18, Sindesar Khurd Mine has been selected for Bala Gulshan Tandon Excellence Award for year 2017-18 for its overall performance.

“You cannot hope to build a better world without improving the individuals. To that end, each of us must work for his own improvement and, at the same time, share a general responsibility for all humanity, our particular duty being to help everyone...”

- Marie Curie, French-Polish Physicist ”



'Tag A Waste' Campaign held at RDC

In alignment with the V-SHINE journey of Vedanta and to improve and strengthen the 5S practices of Rajpura Dariba Complex, 'Tag a Waste' Campaign was launched on 15th July, 2018 in Dariba Smelting Complex and Common areas (Lab, Stores and Logistics). It is a platform where teams can identify unwanted material and shift that material to the designated 'Red Tag Area' located near to their work area which further will be scrapped and discarded after completion of campaign.

Crash Helmets distributed at Zawar Mines

More than 650 Crash Helmets were distributed among the employees of Zawar Mines in quarter 2. This has reinstituted the importance of safety in the lives of the individuals.

Natural Capital Externalities Evaluation at HZL

Natural Capital Externalities Evaluation for impact on natural capital conducted through CII at all locations of Hindustan Zinc. The objective of current assessment is to access the impacts and develop a baseline for natural capital impacts from operations and to track performance with year over year assessments for HZL mine and smelting plant operations in Rajasthan.

Chetna - Ek Kudum Swachta Ki Aur at PMP

Chetna – Ek Kudum Swachta Ki Aur Initiative has been started at Pantnagar Metal Plant where all the employees participate in cleanliness drive in plant in Quarter 2. In every session, one area is identified and all the employees make sure that no debris are left behind. The session ends with a meeting to identify root cause for waste generation and all observations are shared.



Road Safety Awareness at HZL

Nukkad Natak on Road Safety was conducted on 18th July, 2018, at UG portal and admin open lawn. More than 500 employees, including contract workers witnessed the event. The core theme of program was usage of Crash Helmet and following Traffic Rules.

Improvement Initiatives at PMP

Pantnagar Metal Plant team has implemented Rain Water Harvesting technique to save and increase the ground level of water and on the other side to improve the safety of pedestrian, a walk way has been developed through out the plant with barricade.

Life Cycle Assessment conducted at HZL

Hindustan Zinc conducted Life Cycle Assessment (LCA) study as per ISO 14040 standard, using the approach of 'cradle to grave' for their Zinc, Lead and Silver products. This study establishes the baseline impact of '1 ton of Zinc, Lead and Silver Production' for facilities of HZL. The exercise aims to understand the various environmental impacts of the selected products as well as evaluate the savings potential which can then further be used for setting sustainability targets or communication to the stakeholders. While comparing the results with the study undertaken by International Zinc Association and International Lead Association, HZL's results are at par with the world average data. HZL's production processes are dependent on coal-based electricity production. In spite of this situation, the LCA results are quite close to world average because of the various environment friendly initiatives.

Science Based Targets at HZL

Hindustan Zinc is signatory to Science Based Target Initiative and committed to reduce absolute Scopes 1 and 2 GHG emissions 14% by 2026 from a 2016 base year and also committed to reduce absolute Scope 3 GHG emissions 20% by 2026 from a 2016 base year. To meet these targets, the company is looking at increasing alternative energy in the total energy mix to reduce carbon footprint, be more environment-friendly and cost competitive.

Sustainability Report FY 17-18 released with theme TechTatva

Hindustan Zinc has released 3rd Sustainability Report with theme 'TechTatva'. TechTatva emanates from technology being the key element across all pillars of Sustainability at HZL, and the binding force of interventions across the three bottom-lines. Report focuses on the technological intervention in safety, environment management, people development, community and supply chain value addition. This year's report has been prepared as per GRI Standard 'in accordance'- Core Criteria, including the technical protocols of the Mining and Metals Sector Supplement. Assurance of this report was carried out in accordance with the International Standard on Assurance Engagements 3000 (revised) by M/s KPMG.

VSAP Audit 2018 at HZL

Vedanta Sustainability Assurance Program (VSAP) 2018 has been initiated for this year. The Audit has been conducted at Rajpura Dariba Complex, Rampura Agucha Mine and Kayad Mine.

13th CII Sustainability Summit

Hindustan Zinc get associated and participated in 13th CII Sustainability Summit. Agenda of the Summit was to focus on topics such as, global governance & risks, energy, water, well-being, science & action, circular economy, sanitation, empowerment, social entrepreneurs and change-makers. This event has presented various sustainability solutions, best practices, enhancing learning experiences and developed partnerships to position innovative ideas into action.

Monthly Award Function held at Hindustan Zinc

Captive Power Plant takes initiative to organize monthly award function among all three Captive Power Plant O & M Partners based on their performance. Outcomes of this initiatives results in horizontal deployment of improvement initiatives among O & M partners. In July, 2018, monthly award function was organized at Chanderiya Smelting Complex where Dariba Smelting Complex CPP won the first prize in Performance and Safety.

On behalf of Dariba CPP, Mr. Manoj Agarwal – CPP Unit Head and Mr. Sanjay Pareekh – Wartsila Plant Manager received the award.



Safety Competency Assessment launched at HZL

To enhance safety performance at workplace and to achieve ultimate vision of 'Zero Harm', Safety Competency Assessment was initiated on the V-Perform portal to strengthen existing Safety Management System by means of training, skills, experience and knowledge that an employee possess and their ability to apply them to perform a task safely which will enable to mitigate the risk and ensure that employees are well organized and safe all the time at Workplace.

“Joy can only be real, if people look upon their life as a service and have a definite objective in life outside themselves and their personal happiness, because the sole meaning of life is to serve humanity...”
- Leo Tolstoy, Russian Writer ”



Safety Innovation Cell at HZL

To bring in innovation in Safety practices including material handling systems, processes, etc. and to remove unsafe practices in the organization, Hindustan Zinc has announced the formation of Safety Innovation Cell led by Mr. Vinod Wagh as Head Safety Innovation Cell, HZL. This cell will primarily drive safety through adopting technology, innovation, analytics and benchmarking to bring in best in-class Safety Practices.

Training on Effect & Cause Charting at RDC

4 days Effect & Cause Charting training was conducted through ERM at Rajpura Dariba Complex with 22 participants from across HZL locations. Effect & Cause is an effective tool to conduct incident investigation and lead to proper root cause analysis so that appropriate actions can be taken to avoid the reoccurrence of the incident.

Head Office Building Performance Evaluation Study

The Building Performance Evaluation (BPE) using the 'In-Use' building BPE methods of Learn-BPE Project was carried out at Head Office in Udaipur, India. Learn-BPE is a two-year UK-India research project to enhance building performances of green buildings in India and to develop new knowledge, tools and skills amongst researchers, postgraduate students and practitioners of engineering and architecture from a technical and occupant perspective. The field study was conducted from 5th July - 6th August, 2018.

Lead Auditor Training at HZL

5S Lead Auditor training on ISO Environment & Safety Standards was conducted through CII from 23rd - 27th July, 2018 at Head Office. 22 Lead Auditors across the units developed. The training also focuses on migration from OSHAS 18001 to ISO 45001.

Audhyogik Suraksha Rath (3M - Complete PPE's Solution) visited Kayad Mine, RAM and CSC

Audhayogik Suraksha Rath which is traveling across the length and breadth of India to create awareness on various Personal Protective Equipment and their usage also visited to Kayad Mine, Rampura Agucha Mine and Chanderiya Smelting Complex to spread safety awareness among the employees.

Audhayogik Surkasha Rath (Industrial Safety Drive) is a joint initiative of DGFASLI and 3M India to assure safety at workplaces across nation with 360° protections.

Safety Training Kiosk at Zawar Mines

The Safety Training Kiosk was installed to facilitate state of art, real time training and learning wherein anyone can read, check demos, learn and certify himself on any topic. It also features the test at the end of each course.

News Digest...

- ◆ Mock Drill for Emergency Preparedness was organized at Pantnagar Metal Plant on 10th August, 2018. There were 20 participants.
- ◆ An awareness session was organized for contract workers and truck drivers on Safety and Security at Pantnagar Metal Plant on 25th August, 2018. There were 50 participants.
- ◆ Training to Security Personnel on Emergency Response Training was organized at Pantnagar Metal Plant on 2nd August, 2018. There were more than 15 participants.
- ◆ Vehicle & Driving Safely online test was conducted for all employees at Hindustan Zinc to raise awareness and ensure the compliance of the same.



Football Academy

India's first F-Cube Technology introduced

Hindustan Zinc officially launched Project 'Zinc Football' to provide professional football coaching to the rural children of Rajasthan who are in the age group of 5-12 years on 21st September, 2018. Hindustan Zinc has built a world class residential Football Academy at Zawar near Udaipur in Rajasthan with state-of-the-art facilities. Logo of Zinc Football was also launched by Mr. Sunil Duggal - CEO HZL, Mr. Annanya Agarwal - President, Vedanta Football, Mr. Vishal Bansal - IG of Udaipur and Mr. Bishnucharan Mallick - Collector of Udaipur.

Hindustan Zinc Football Academy is India's first technology based Academy. The Academy would provide international standard training facilities with 'F-Cube' Training and Assessment Technology, the world's first intelligent and interactive device for football and fitness training, skill assessment, cognitive development, practice and also factor in important parameters like skills, nutrition, physical, psychological and mental development. The Zinc Football Academy will also be equipped with 3 FIFA Quality Turf and also a 7v7 size Natural Grass Ground for training and practice equipped with Team Dugouts.

The scouting of Football talent was done by Hindustan Zinc by going in the deep rural areas. 4500 children were scanned and finally 30 children have been shortlisted in the first batch which are fully supported by the company who have also taken the responsibility of giving scholarships to all the students for their formal education also. Zinc Football intends to train over 2000 passionate boys and girls by fully skilled football trainers through 64 community football centres - Zinc Football Schools, across Rajasthan.

Speaking on the launch, Mr. Sunil Duggal - CEO, HZL said, "We at Hindustan Zinc are committed for working towards projects that support the public at large. With the launch of Zinc Football, we wish to establish Rajasthan on Indian football map, and eventually take our country to greater heights in sports. Our vision is to develop 10,000 football players in Rajasthan and in the next 3 years and emerge amongst one of the top 25 positions in football across the world."



Mr. Sunil Duggal – CEO, HZL



Mr. Bishnucharan Mallick
- Collector, Udaipur



Mr. Annanya Agarwal
- President, Vedanta Football



Mr. Vishal Bansal - IG-Udaipur

"I was very excited to see Zavar's 'Kumar Mangalam Football Tournament'. I saw thousands of people watching matches with great interest. This is when I thought we should develop a full-fledged football academy and scout young talent and give them world's latest training and other facilities" Mr. Duggal further added.

For the first time in India, with 'F-Cube' Training and Assessment Technology has been launched to develop various skills and strengths of children in football.

Mr. Annanya Agarwal, President, Vedanta Football said, "Being a footballer myself, I am very passionate about football. India has a lot of talent but very little infrastructure. There is definitely a gap between what we need and what we have. This needs to be bridged. Our aim is to put India firmly on the world foot balling map and see India among the top-10 teams in Asia and top-25 in the world within the next five years."

Speaking on the occasion, Mr. Vishal Bansal, IG-Udaipur said, "I would like to congratulate all the young talented students of Hindustan Zinc Football Academy. I am pleased to see such latest technology being implemented to train the young talent." Mr. Bishnucharan Mallick, Collector, Udaipur also said, "Hindustan Zinc has set a benchmark for other corporates as it is working with a lot of vigor and passion in different spheres. I wish them all the best."

Hindustan Zinc has partnered with 'The Football Link', one of India's premier football development organizations with professional expertise in organizing large-scale football initiatives for developing grassroots football in the country. The founder of 'The Football Link' - Mr. Chetan Mishra spoke about the ecosystem of sports which is very different in India and abroad.

Hindustan Zinc is India's only and world's leading integrated Zinc-Lead-Silver producer. The Company has been associated with sports and has been promoting sportsmen for almost 4 decades when the company made its football stadium at Zavar in Rajasthan in 1976. Since last 40 years, National Football Tournaments are being organized every year at Zavar Stadium. The company has also supported several athletes in the past who have brought numerous laurels for the country in international events.

“We Are Taught Much, But We Learn Less”, Pavan Kaushik



As part of the International Teachers Day celebration, Vivekananda Lok Manch on 3rd September, 2018 recognized the teachers who have made Udaipur proud. These were the teachers whose students have attained high positions in government as well as private sector. On this occasion, as Guest of Honour, Pavan Kaushik the Vice President & Head – Corporate Communication of Hindustan Zinc spoke about the relation between teaching and education. “We are taught much but we learn less”, he said.

He spoke about how technology is making us dependent. The gadgets that we created are making us their dependent. We have forgotten to seek knowledge and we only thrive to seek marks and grades. He said “Try not touching gadgets for about a day and you will feel there is plenty of time to invest in

various creative things. Without gadgets we had all the time to play and do socialization. Today, our socialization happens in the digital world. I don't say technology is not connecting people who live distance away. What I am saying is that it is creating distance between people living close to you.”

“Our teachers have made what we are today – our position, our character and we as a brand. If a corporate education like structure can be put in place in the schools, it will help devise various verticals of different subjects and with focused teaching, the scoring of each of the verticals can be improved, leading to strengthening of education system.” Pavan Kaushik said.

Guru-Kshetra



“Parents and teachers, both responsible for effective education system”, says Pavan Kaushik at Gurukshetra.

Pavan Kaushik - Vice President & Head-Corporate Communication, HZL addressed more than 50 teachers of Maharana Mewar Public School Udaipur, the school of royal family of Udaipur on 10th August, 2018. The session, as part of the initiative – Gurukshetra, Learning Beyond the Territory, was attended by the faculty of classes 6th to 12th of all subjects. In the second chapter of Gurukshetra, Pavan Kaushik focused on how a school and its students can benefit tremendously if there is a strong connect between the students, teachers & parents.

Pavan Kaushik also spoke about the importance of

setting both long term and short terms visions for the school. The objective should not be to just finish the syllabus, instead one should think about giving rise to a new crop of well-rounded students and build brands out of those students. In this regard, Pavan Kaushik recommended that the schools can constitute a Parents Advisory Board which will make the parents more involved in the students' education and also draw out a vision for the school. Along with establishing a Board, various professionally qualified parents can conduct orientation exercises wherein the students can be exposed to different fields. “If a corporate structure can be put in place in the schools, it will help devise various verticals of different subjects and with focused teaching, the scoring of each of the verticals can be improved. This would ultimately help in a comprehensive marked improvement in all the subjects taught in the school and would also create a healthy evaluation criterion between schools. With coordination and cooperation, the students, their parents and teachers are a triangle of success.”, said Pavan Kaushik. The session was appreciated and highly lauded by the faculty of the school who expressed their wish to have more of such sessions in the future not just for teachers but also for the students and their parents.



GETs' Interaction with Senior Management at RAM

A session was conducted where top performing GETs interacted with the senior leaders at Rampura Agucha Mine on 6th July, 2018. Mr. L.S. Shekhawat - COO Mines, inaugurated the session. Mr. R.P. Dashora - Site President, concluded the workshop by assigning Mentor and Project Assignments to the top 10 GETs.



Dream Run August 2018-10000 MT Cathode Production from Cell House

Dream Run is a 'proof of concept' of sustained, significant jump in current performance aided by meticulous planning, strong execution & extensive communication and follow-up with duration of four weeks.

This is going to be a chance to show that performance can reach and sustain at the high level. It will also activate teams and build confidence by driving visibility of plant's performance within the plant and externally to various stakeholders. During Dream Run, Rigorous tracking and monitoring of target KPIs - tracking them during every shift, daily discussion of performance and slippages, speedy implementation of all action plans coming out of morning meetings, trackers at sites and showing daily update on performance of key KPIs.

Process Optimization Training at Zawar Mines

Process Optimization Training at Zawar Mines was carried out by the Business Excellence Department wherein training was imparted to the representatives of all functions on 'Process Optimization' using tools like 6-Sigma, etc. on 14th August, 2018. The faculty was from M/s KPMG.



Training on Statutory Laws and Compliances at Zawar Mines

Training on Statutory Laws and Compliances was conducted by M/s QMS faculty - Mr. Amit Lunia on 22nd August, 2018. The department HODs and key stakeholders were imparted training on the latest amendment in the applicable Statutory Laws and Regulations.

Safety Chaupal conducted at HZL

Safety Chaupal (Nukkad Natak) was conducted across all the mines at all Business Units of Hindustan Zinc.

“Equal education opportunities for all children, is the most fundamental initiative for a long-term sustainable change. Equal Education will empower the new generation to emerge as social and economic factors in influencing and shaping inclusive policies...” - Anil Agarwal, Chairman



Mining Mate Up-skilling Training Program at RAM

Up-skilling Training Program under Safety Initiative was undertaken across the mining locations and was successfully completed in December, 2017 by IMME, Kolkata. To train more mining mates, one more session was conducted from 23rd - 28th July, 2018 at Rampura Agucha Mine. 13 contract workers were benefited from this program.



Training on Human Rights at Zawar Mines

A series of Training on Human Rights were conducted from 20th – 31st August, 2018 by Mr. Khush Vaishnav - SBU HR Business Partner to increase awareness about Human Rights among the skilled and unskilled manpower, drivers, security personnel, etc. at the unit.

Adarsh - Employee of the Month at PMP

Adarsh initiative aims at observing and awarding the employees who have been constantly showing the continuous efforts to excel, integrity in their job schedule, behavioral attitude, positivity for life's race, etc. An employee at Pantnagar Metal Plant is declared as 'Employee of the Month' under the scheme for his/her accomplishments during each month. Mr. Dhawal Srivastava and Ms. Urvashi Jindal were Employee of the Month for June & July, 2018 respectively.

Safety Initiative at RAM

M/s Ability Consultant Services was engaged during a workshop on Rigging Safety from 20th - 26th July, 2018 at Rampura Agucha Mine. Lifting and Shifting Standard Compliances were achieved with the help of this program. Training was imparted and 8 employees and 42 contract workers were certified for Riggers.



Induction and Training Program at Zawar Mines

In July, 2018, a detailed training program was planned and organized for the new joiners (freshers) at Zawar Mines for smooth on-boarding and hand holding. 21-day program for the freshly joined GETs (Graduate Engineer Trainees) and 14-day program for the last year batch employees was conducted at Zawar Mines, to brief them about various operations. It also included topics like gas testing, work at height, business update, to name a few. A CSR visit to nearby villages was also arranged for them.

Road Safety Awareness Program at RAM

Nukkad Natak on Road Safety was conducted on 18th July, 2018 at Rampura Agucha Mine. More than 500 employees including contract workers were present for the event. The core theme of program was usage of Crash Helmet and Traffic Rules.



Training on Labour Laws and Compliances at Zawar Mines

A session on the Labour Laws and their subsequent Compliances and Returns was organized on 5th September, 2018 by the partner M/s Aparajitha for all the representatives of the stakeholders including contract workers, employees, etc. Around 45 people attended this session.



Mentor-Mentee Meet held at RDC

With the aim to assist the new members of Dariba Smelting Complex, in their personal and professional development, Mentors have been assigned to all GETs. Mentors would be their 'Go-to' persons and help them to get accustomed with the work and workplace.

The first Mentor-Mentee Meeting was organized on 21st July, 2018, wherein all the Mentors and Mentees came together and discussed how they would take the relationship forward. Mentees were encouraged to share any concerns that they may have, with their mentors and be open to seek guidance. The Mentors, on the other hand, were urged to be approachable, suggest and monitor progress on the areas that the Mentee should work upon.



Date with the Director Initiative held at Zawar Mines

As a part of Employee Connect, a new initiative 'Date with the Director' has been started at Zawar Mines in quarter 2, wherein the Director, Zawar IBU meets one employee everyday in an informal way and chats over coffee. The employee while leaving gives his feedback on the 'Mood Board'.

“Humility in success and courage in failure are hallmarks of a good leader. If we stop thinking of the poor as victims or as a burden and start recognizing them as strong and creative entrepreneurs and value conscious people, a whole new world of opportunity will open up for them and us...”

- C.K. Prahalad, Professor of Corporate Strategy ”



Shabaash Celebration at RDC

Shabaash Celebration was held on 4th August, 2018 at Dariba Smelting Complex. Shabaash is a platform where contract workers are recognized and rewarded who have shown outstanding performance in terms of safety or going an extra mile beyond their area of work. Winners get a chance to meet and interact with the Smelter Head - Mr. Deepak Sopori and Smelter HR Head - Mr. Anil Gadiya. As a token of appreciation, they are also given a reward for their performance.



Vehicle & Driving Training at Zawar Mines

Vehicle & Driving Training at Zawar Mines was conducted by Mr. Girish Kukreti for employees and contract workers on 3rd September, 2018. In addition to this, a seminar was held at DAV school on 4th September, 2018, for students and parents on the same topic. Around 100 students and parents participated in the training. Around 210 people got benefited from both the programs.



Inauguration of Rest Room for Truck Drivers & Helpers at PMP

Restroom for the Truck drivers and there helpers has been constructed at Pantnagar Metal Plant. It was inaugurated by Pankaj Kumar – COO Smelters on 18th August, 2018. It will help the plant in smooth functioning by reducing the unwanted movement of drivers and helpers in plant thus avoiding the accidents as well.

Awareness Session on Provident Fund at Zawar Mines

An awareness session on Management of Provident Funds, linking of UA number with Aadhar and how to access self-account, was given to all the employees including contract workers on 5th September, 2018.

“There is nothing education cannot do. Nothing is above its reach. It can turn bad morals to good; it can destroy bad principles and recreate good ones. It is noble to teach oneself, but still nobler to teach others...”
- Mark Twain, American writer ”

Employee of the Month at Kayad Mine

Employee of The Month title for July, 2018 was given to Mr. Pushpendar Singh - LHD Operator, T.No. - 1056 at Kayad Mine. The award was given for ever highest mucking in a shift.



Benchmarking Visit to IOCL by PMP

A Pantnagar Metal Plant team from different departments - Finance, Commercial, IT & HR was formed and they visited the IOCL Delivery station at Lal Kuan to understand the better practices which IOCL has in their concerned departments on 6th July, 2018.

Project 'Genesis - Discover a path to our Vision' at RDC

Hindustan Zinc has partnered with Mettl, one of the largest assessment organizations, and initiated a project 'Genesis-Discover a path to our Vision', for contract workers of Rajpura Dariba Complex. Mettl will work with various stakeholders to sense out a competency framework of the organization and validate with position analysis of job holders, pre & post training assessment to check the training effectiveness of the entire process. This was a 3-day project from 3rd–5th September, 2018. The Consulting Partners met with the Senior Management including Mr. Laxman Shekhawat - COO Mines, Mr. Pankaj Kumar - COO Smelters and Mr. K.C. Meena - Site President. Expectations and thoughts were shared regarding scope of the project. All Unit Heads from Smelting and Mining were also part of the meeting. Executives from all Units of Mines and Smelters participated in the first phase for identification of unique roles and skill requirement exercise.

Aap Ki Awaaz at PMP

Aap Ki Awaaz is an initiative where Unit Head along with all department heads interacts with contract workers on a monthly basis and try to understand the issues faced by them in day to day working at Pantnagar Metal Plant. Under the program, contract workers are also awarded for their innovative ideas and exceptional performance at work. This has helped in identifying and removing of the bottlenecks in the process and has brought up a better management of different work-flows.



Reward and Recognition Program held at RDC

Monthly Reward and Recognition Program for recognizing and motivating contract workers was held at Sindesar Khurd Mine. Prize distribution for various categories was organized at South Ramp, SK Mine. The nominated winners were awarded with certificate of excellence and gifts. Around 26 different categories were acknowledged for their achievements. Best Technician, Best Solo/Jumbo Operator, Best Fitter, Highest Attendance and Best Welder were the categories.

“I feel no need for any other faith than my faith in the kindness of human beings. I am so absorbed in the wonder of earth and the life upon it that I cannot think of heaven and angels...”
- Pearl. S. Buck - American Writer ”

खदानों में सुरक्षा एवं स्वच्छता के प्रति जागरूकता पैदा करने हेतु अखिल भारतीय खान सुरक्षा सप्ताह में जुटेंगे देश भर के खनिक



भारत सरकार श्रम मंत्रालय के निर्देशानुसार खदानों में स्वच्छता एवं उच्चतम न्यायालय के निर्देशों की अनुपालना में खनिक श्रमिकों में सिलिकोसिस बीमारी के प्रति जागरूकता पैदा करने हेतु अखिल भारतीय खान सुरक्षा सप्ताह की थीम “खान सुरक्षा, स्वच्छता एवं सिलिकोसिस जागरूकता” पर रखी गई। जिसके लिए प्रथम अखिल भारतीय खान सुरक्षा, स्वच्छता एवं सिलिकोसिस जागरूकता सप्ताह का आयोजन दिसंबर 2018 में हिन्दुस्तान जिंक द्वारा राजपुरा दरीबा माइन्स में आयोजित होगा। खान सुरक्षा महानिदेशालय के तत्वावधान में देश के विभिन्न राज्यों में संचालित भूमिगत धातवीय खदानों में सुरक्षा प्रणाली एवं कार्यविधियों में एकरूपता लाने तथा खनन क्षेत्र में उत्पन्न चुनौतियों के सरलीकरण हेतु विविध भौगोलिक परिस्थितियों में संचालित खनन क्षेत्रों के प्रतिनिधियों के अनुभवों को साझा करने के उद्देश्य से इस आयोजन हेतु 13 जुलाई, 2018 को हिन्दुस्तान जिंक के आतिथ्य में बैठक का आयोजन हुआ। बैठक एन. रजक – सुरक्षा उपमहानिदेशक, उत्तर-पश्चिमी अंचल, उदयपुर की अध्यक्षता में सम्पन्न हुई, जिसके मुख्य अतिथि डॉ. ए.के. सिन्हा – खान सुरक्षा उपमहानिदेशक, दक्षिण-पूर्वी अंचल, राँची थे।

बैठक में हिन्दुस्तान जिंक, हिन्दुस्तान कॉपर लिमिटेड, मैग्नीज ओर इंडिया लिमिटेड, यूरेनियम कॉर्पोरेशन ऑफ इण्डिया लिमिटेड, इण्डियन मेटल एवं फेरो अलॉय लिमिटेड एवं हट्टी गोल्ड माइन्स प्रबन्धन के उच्चाधिकारियों सहित उड़ीसा, झारखण्ड, महाराष्ट्र, आंध्रप्रदेश, मध्यप्रदेश, छत्तीसगढ़ एवं राजस्थान में स्थित भूमिगत धातवीय खदानों के खान मालिक एवं तकनीकी विषय विशेषज्ञ सहित कुल 40 प्रतिनिधि सम्मिलित हुए। बैठक में निर्णयानुसार अगस्त से अक्टूबर माह में देश के विभिन्न खनन क्षेत्रों में कुल 30 प्रकार के ट्रेड-टेस्ट का आयोजन होगा, तदुपरांत 16 दिसम्बर, 2018 को मुख्य कार्यक्रम राजपुरा दरीबा खान पर आयोजित मुख्य समापन समारोह में विजेता माइंस एवं प्रतिभागियों को पुरस्कार वितरित किए जाएंगे। इस अवसर पर एक तकनीकी स्मारिका का विमोचन भी किया जाएगा।

बैठक में हिन्दुस्तान जिंक दरीबा कॉम्प्लेक्स के साइट प्रेसीडेंट – श्री के.सी. मीणा, रामपुरा आगुचा के साइट प्रेसीडेंट – श्री आर.पी. दशोरा, दरीबा के माइंस युनिट हेड – श्री संजय खटौड़, जावर के ऑपरेशन हेड – श्री एच.पी. कालावत, श्री आर.पी. शर्मा, श्री इस्माईल मोहम्मद सहित अन्य माइंस के प्रतिनिधि एवं अधिकारी उपस्थित रहे।

News Digest...

- ◆ A two-day workshop on Motivation was conducted by external trainer M/s BSR, on 23rd & 24th July, 2018 at Rampura Agucha Mine.
- ◆ Mining Mate Up-skilling Training was conducted at Zawar Mines in partnership with IMME, Kolkata, where around 58 participants were covered in 2 batches – 26th – 30th June, 2018 & 2nd – 6th July, 2018.
- ◆ Around 101 riggers were trained on 'Rigging Safety' by consultant M/s Ability at Zawar Mines in 4 batches in August, 2018.
- ◆ A Reward and Recognition program was organized by SS & Co. at Dariba Smelting Complex conference hall. Prize were distributed under various segments like Best Technician, Best Operator, Best Supervisor and so on.
- ◆ An introductory meeting with the Mine Manager was held to understand the scope and context of the projects running at Sindesar Khurd Mine. In addition, Project Charter Templates were shared to guide the employees on the creation of KPIs and action points.
- ◆ Self-Defence training for all female employees was organized at Pantnagar Metal Plant in quarter 2.

AJMER DARGAH TO HAVE FACELIFT

The MoU in this regard was signed between Hindustan Zinc, Ajmer Dargah Committee and Municipal Corporation Ajmer to spend Rs. 5.68 crores to clean & manage Dargah Ajmer Sharif, in the presence of Hon'ble Minister of Minority Affairs, Government of India - Mr. Mukhtar Abbas Naqvi on 1st September, 2018 at Kayad Vishram Sthali, Ajmer.



Hindustan Zinc has joined hands with Government of India, to convert Dargah Ajmer Sharif into Swachh Iconic Places (SIP) under Swachh Bharat Mission (SBM). Hindustan Zinc is executing the Project in 3 phases and in 1st phase, the company will be investing Rs 5.68 crores that covers the establishment of two flower compost making machines, cleaning and basic repair of the Jhalra, re-flooring in select areas including laying underground pipes for electrical and water supply, procurement of machines for cleaning the floors, risk management system plan, providing drawings for conservation of Nizam Gate and undertaking conservation of Shahjahani Gate.

The MoU in this regard was signed between Hindustan Zinc, Ajmer Dargah Committee and Municipal Corporation Ajmer to spend Rs. 5.68 Crores to clean & manage Dargah Ajmer Sharif in the presence of Hon'ble Minister of Minority Affairs, Government of India - Mr. Mukhtar Abbas Naqvi on 1st September, 2018 at Kayad Vishram Sthali, Ajmer. Mr. Amitabh Gupta – CFO, HZL, Mr. I.B. Peerzada – Nazim & CEO, Dargah Committee, Ajmer and Mr. Himanshu Gupta - Commissioner, Municipal Corporation Ajmer signed the MoU.

Swachh Iconic Places - a special clean-up initiative focused on select 100 iconic heritage, spiritual and cultural places in the country under the Multi-stakeholder Approach Model. The campaign was initiated in year 2016 with 10 Swachh iconic places in India to be cleaned and developed at higher level of sanitation and facility management in collaboration with corporates and leading Public Sector Units (PSUs). It is being coordinated by the Ministry of Drinking Water and Sanitation in association with the Ministry of Urban Development, Ministry of Culture, Ministry of Tourism and the concerned State Governments. At Ajmer, District Collector is the nodal agency of the project while Dargah committee and Khadims being the primary stakeholder with Municipal Corporation, Ajmer also as a stakeholder.

The vision document has been prepared by the team of Abhimanyu Dalal Architects, Rasika Research & Design and MKG consultants.

Mr. Amin Pathan - President, Dargah Committee assured their complete support to Municipal Corporation and Hindustan Zinc and they believe that this association will give complete face change to Ajmer Dargah Sharif.

Mr. Vasudev nani - State Education Minister also appreciated about the commitment and association of the team involved in Ajmer Dargah Sharif project under Swachh Iconic Places. Dargah Ajmer Sharif is amongst the most sacred and visited pilgrimage sites in India and the world. It was the abode of the Sufi Saint Khwaja Moinuddin Chishti between 1192 and 1236 AD. Devotees from all over the world travel almost throughout the year and offer prayers, flowers and 'chadar'. It is believed that a person's gets all his or her wishes fulfilled, when prays with a pure heart at the Ajmer Sharif Dargah.

Also present on the occasion were Mrs. Arti Dogra - Distt. Collector, Ajmer, Ms. Neelima Khetan – Head CSR, HZL, Mr. Balwant Singh Rathore – Unit Head, Kayad Mine, government officials, management of Hindustan Zinc & Ajmer Dargah Committee.

Hindustan Zinc installs 2 Recycling Machines

Taking this initiative forward the Dargah committee and Hindustan Zinc - Rajasthan have installed two recycling machines that can convert flowers into compost. Going by visit of the devotees, hundreds of kilograms of flowers are offered almost on daily basis and this has brought the thought of recycling these flowers and use them as compost for the plants near 'Vishram Sthal' (Rest Rooms). With this gainful utilization of flowers, the ambience of the Dargah is also expected to improve multi-fold.

The two units were inaugurated by the District Collector Ajmer - Mrs. Arti Dogra in the presence of and Mr. Ameen Pathan - President of

the Dargah Committee on 26th July, 2018. Each machine churns out about 25 kilograms of compost from about 100 kilograms of flowers. During the rush days, the machines has the capacity to churn out more compost. The operations of the machines will be administered by the Dargah Committee.

During the event, Mr. Balwant Singh Rathore – Unit Head, Kayad Mine, spoke about the various CSR activities undertaken in Kayad area. Also present on the occasion were Secretary & Asst. Secretary of Anjuman Committee, and Dargah Nazeem, I.B. Parijada. The inauguration was also attended by villagers and officials of Hindustan Zinc.



Zinc Football Tournament held at Zawar Mines



Zinc Football Tournament was organized on 21st August, 2018, for playoffs and finals at the newly built Football Performance Analysis Centre at DAV School, Zawar Mines. 177 teams from all the 6 Hindustan Zinc Epicentres - Agucha, Debari, Dariba, Zawar, Chanderiya and Udaipur battled. Mr. Annanya Agarwal - President, Vedanta Football Project was the Chief Guest of the event. 18 teams from each category viz., Under-12 boys, Under-14 Boys and Under-14 girls were shortlisted for the finals. In the finals, the respective teams won the match - Under-14 Boys winner: Zawar Tigers, Under-12 Boys winner: Chanderiya Bucks and Under-14 Girls winner: Zawar Tigers.

In July 2017, Hindustan Zinc with the help of Football Link, conceptualized and developed a 360 degree Football project comprising of setting-up a Residential Academy of International repute for talented Footballers from Rajasthan under 14 years of age, introducing Technology to monitor project impact and uplift communities by creating future Football talent between 7 to 12 years of age through Community Football Centres in Government Schools.





37 teams from Udaipur district participated in the district level Football Tournament on 9th August, 2018. DAV Hindustan Zinc Team won the match. Hindustan Zinc contributed towards the prizes for winners, runner ups, coaches and organizers under sports and culture initiatives at Zawar.

एक हजार से अधिक फुटबॉल प्रेमियों ने देखा सजीव प्रसारण

चित्तौड़गढ़ के इंदिरा गांधी स्टेडियम में फीफा वर्ल्ड कप को देखने के लिए 20 गुना बारह की बड़ी स्क्रीन पर मैच का सजीव प्रसारण किया गया। स्टेडियम में शाम से ही फुटबॉल प्रेमियों के आने का सिलसिला शुरू हो गया था जिनके लिए फ्रांस और क्रोशिया के समर्थन में फेस पेंटिंग के कलाकार मौजूद थे, 400 से ज्यादा बच्चों और फुटबॉल प्रेमियों ने अपने चेहरों पर फेस पेंटिंग बनवायी, वहीं कुछ फुटबॉल प्रेमी अपनी हेयर स्टाइल से फीफा के रंग में नज़र आए। विजेता टीम की जीत का जश्न सभी खिलाड़ियों ने मिलकर पटाखों और ढोल नगाड़ों के साथ नाचने झूमने और एक दूसरे से चीयरअप कर के मनाया। फुटबॉल फीवर के इस मिनी कुंभ में हिन्दुस्तान ज़िंक फुटबॉल अकादमी से विगत एक वर्ष से फुटबॉल का प्रशिक्षण ले रहे 400 ग्रामीण प्रतिभावान बच्चे, शहर और ज़िले भर से आए फुटबॉल प्रेमी और फुटबॉल क्लब मौजूद थे।



Shiksha Sambal Project at ZSD

Under Shiksha Sambal Project, Zinc Smelter Debari team has provided furniture - 800 tables and stools in 13 Government Schools of nearby area. It will directly benefit approximately 1500 students in 13 Govt. schools.

“Losing love and self-respect for each other is equivalent to not living fully. We all have empathy in us. So let's show it. Because, Good done anywhere is good done everywhere...”

- Maya Angelou, American Poet ”

ज़िंक फुटबॉल एपि सेंटर टूर्नामेंट में 2000 खिलाड़ियों का उत्कृष्ट प्रदर्शन



जावर में एपि सेंटर फुटबॉल टूर्नामेंट में ना सिर्फ आस पास के क्षेत्र एवं उदयपुर के गाँवों के 350 फुटबॉल प्रतिभाओं, जावर माइंस के उच्चाधिकारियों और कर्मचारियों ने भी फुटबॉल मैच में अपने हुनर दिखा दर्शकों का दिल जीत लिया। हिन्दुस्तान ज़िंक द्वारा द फुटबॉल लिंक के सहयोग से विगत एक वर्ष से जावर के 12 केन्द्रों पर नियमित फुटबॉल का प्रशिक्षण दिया जा रहा है। इस मौके पर द फुटबॉल लिंक से हेड कोच आवासीय फुटबॉल अकादमी सुरेश कटारिया, रोहित पाराशर, संजीव महापात्रा, हिन्दुस्तान ज़िंक, जावर माइंस से प्रशासन प्रमुख कर्नल विनय शर्मा, लीड सीएसआर अरुणा चीता, शुभम गुप्ता, नैरोती सांघवी, हेड प्लानिंग जगदीश प्रसाद, महेंद्र सुथार, डॉ. संदीप राजपूत, डॉ. सी.एस. मिश्रा, सहित खिलाड़ी, अधिकारी एवं कर्मचारी उपस्थित थे।

रामपुरा आगूचा में 450 फुटबॉल प्रतिभाओं ने फुटबॉल मैच में अपने हुनर दिखा दर्शकों का दिल जीत लिया। हिन्दुस्तान ज़िंक द्वारा द फुटबॉल लिंक के सहयोग से विगत आठ माह से रामपुरा आगूचा के 11 केन्द्रों पर नियमित फुटबॉल का प्रशिक्षण दिया जा रहा है। यहां आयोजित फुटबॉल प्रतियोगिता में 8 से 14 वर्ष बालक एवं बालिका वर्ग में खिलाड़ियों ने कुल 40 मैच खेले। प्रतियोगिता में ज़िंक कॉलोनी स्कूल प्रथम, रा.उ.प्रा. अरनिया चौहान द्वितीय, 14 वर्ष बालक में भी वीकेवी प्रथम राजकीय उच्च प्राथमिक अरनिया चौहान द्वितीय व 14 वर्ष बालिका फुटबॉल प्रतियोगिता में राजकीय उच्च माध्यमिक विद्यालय कोठिया प्रथम राजकीय उच्च प्राथमिक विद्यालय अरनिया चौहान द्वितीय रही। इस अवसर पर आयोजित समापन समारोह में अतिथि रामपुरा आगूचा माइंस के हेड प्रशासन कर्नल महितोष देव, हेड सी.एस.आर. दलपत सिंह चौहान, द फुटबॉल लिंक के रोहित कुमार पाराशर, महावीर शर्मा ने विजेता और उप विजेता टीम को ट्रॉफी व हर वर्ग में सर्वश्रेष्ठ खिलाड़ी वह सर्वश्रेष्ठ गोलकीपर को पारितोषिक प्रदान किए।

चित्तौड़गढ़ में करीब 430 से अधिक फुटबॉल के खिलाड़ियों ने एपि सेंटर टूर्नामेंट में 12 वर्ष से कम उम्र में बालक वर्ग की 19 टीमों में 190, बालक वर्ग में 14 वर्ष से कम उम्र में 18 टीमों में 180, एवं बालिका वर्ग में 14 वर्ष से कम उम्र में 6 टीमों की 60 बालिकाओं ने भाग लिया। फुटबॉल की इन उभरती ग्रामीण प्रतिभाओं की कुल 43 टीमों ने 40 मैच खेले। बालक वर्ग में 12 वर्ष से कम उम्र वर्ग में सावां विद्यालय विजेता एवं आजोलियां का खेड़ा उपविजेता, बालक वर्ग में 14 वर्ष से कम उम्र वर्ग में पीपलवास विजेता एवं सोनियाणा

उपविजेता, बालिका वर्ग में सेमलिया विजेता एवं उपविजेता आजोलिया का खेड़ा रही। बेस्ट गोलकीपर का खिताब नगरी के राहुल खटीक, धनेक कलां के दिनेश दुधवाल, धनेत कलां के विकास शर्मा एवं राकेश लोधा बेस्ट डिफेंडर, बेस्ट मिडफिल्डर धनेत के ही कुलदीप लोधा एवं सोनियाणा के विनोद प्रजापत और बेस्ट स्ट्राइकर सावां के आफताब खान एवं पीपलवास के दुर्गेश सिंह रहे। बालिका वर्ग में बेस्ट गोलकीपर सेमलिया की सोनिया शर्मा, बेस्ट डिफेंस पंचदेवला की इश्वरी कुमारी, बेस्ट मिडफिल्डर आजोलिया का खेड़ा की ममता बैरवा एवं बेस्ट स्ट्राइकर सेमलिया की सपना जाट रही।

राजपुरा दरीबा काम्प्लेक्स राजसमंद एवं कायड़ माइंस अजमेर द्वारा भी एपि सेंटर प्रतियोगिताओं का आयोजन किया गया। हिन्दुस्तान ज़िंक द्वारा फुटबॉल को आगे बढ़ाने और इस खेल में रुचि रखने वाले खिलाड़ियों को प्रशिक्षित कर अवसर प्रदान करना है ताकि वे अपना उत्कृष्ट प्रदर्शन कर सकें। हिन्दुस्तान ज़िंक द्वारा जावर में फुटबॉल अकादमी की शुरुआत की योजना के साथ ही जावर, देबारी, दरीबा, आगूचा, चंदेरिया और कायड़ में 6 एपिसेंटर्स का संचालन कर विगत आठ माह से प्रशिक्षण दिया जा रहा है जिसमें 2000 से अधिक ग्रामीण प्रतिभाएं फुटबॉल का प्रशिक्षण प्राप्त कर रहे हैं।

रेलमगरा में हिन्दुस्तान ज़िंक एवं राजस्थान सड़क सुरक्षा सोसायटी के संयुक्त तत्वाधान में चलाये जा रहे राजस्थान सड़क सुरक्षा शिक्षा एवं जागृति के अन्तर्गत सड़क सुरक्षा पर हितधारकों की द्वितीय ब्लॉक स्तरीय बैठक का आयोजन पंचायत समिति मीटिंग हॉल, रेलमगरा में उपखण्ड अधिकारी शक्ति सिंह भाटी की अध्यक्षता में सम्पन्न हुई। सड़क दुर्घटना रहित जोन बनाने के लिए सोसायटी द्वारा अपनाई जा रही स्ट्रेटजी में हितधार विभागों एवं संस्थाओं के सहयोग के लिए आयोजित की गई। जिसमें पुलिस, परिवहन, सार्वजनिक निर्माण विभाग, चिकित्सा एवं स्वास्थ्य विभाग, शिक्षा विभाग, बार एसोसिएशन, बस यूनियन, ग्राम पंचायत प्रतिनिधि, मीडियाकर्मी एवं हिन्दुस्तान ज़िंक सहित भारत सरकार के अधिकारियों ने भाग लिया।



भारत सरकार के तकनीकी सड़क सुरक्षा सलाहकार – वीरेन्द्र सिंह राठौड़ ने देश, राज्य व जिले का सड़क सुरक्षा के राष्ट्रीय परिदृश्य से हितधारकों को अवगत कराते हुए सड़क दुर्घटना एवं होने वाली मौतों को कम करने की विभागवार कार्य योजना पर विस्तार से बताते हुए भारत सरकार एवं राज्य सरकार की सड़क सुरक्षा से सम्बन्धित योजनाओं का उपयोग लेने की अपील की। तहसीलदार – प्रशान्त शर्मा ने पूर्व जिला प्रमुख – नन्द लाल सिंघवी एवं चौधमल जाट के सुझाव पर सार्वजनिक निर्माण विभाग, ग्राम पंचायतें, एन.जी.ओ. के सहयोग से सड़कों के आर. ओ.डब्ल्यू. में आने वाली झाड़ियों एवं अंग्रेजी बबूल को हटाए, ताकि दुर्घटनाओं से बचा जा सके। चिकित्सा विभाग ने अपने अधीनस्थ प्राथमिक एवं सामुदायिक स्वास्थ्य केन्द्रों के माध्यम से गुड सेमिरिटन चार्टर का प्रचार-प्रसार करने एवं दुर्घटना पीड़ित परिवारों से अपील हेतु डेटा संग्रहण करने की सहमति प्रदान की तथा सभी डॉक्टर को फर्स्ट रेस्पोंडर ट्रेनिंग में भाग लेने की सहमति प्रदान की। उपखण्ड अधिकारी शक्ति सिंह भाटी ने इस मिशन की सराहना करते हुए सभी हितधारकों को मिशन में सहयोग करने की अपील करते हुए कहा कि सोसायटी की टीम ग्राम पंचायतों में अलग-अलग वाहनों के श्रेणी बनाकर उनके स्वामियों को इस मिशन से जोड़े ताकि इस मिशन को सफल बनाया जा सके।

पंचायत समिति रेलमगरा के प्रधान प्रभु लाल भील, विकास अधिकारी जितेन्द्र सिंह, हिन्दुस्तान ज़िंक के महाप्रबन्धक प्रशासन कर्नल के.जे.के. चौधरी, निदेशक आई.डी.टी.आर. संजय गौतम, हिन्दुस्तान ज़िंक लिमिटेड, दरीबा के सी.एस.आर. अधिकारी अभय गौतम ने विचार रखे।

सड़क सुरक्षा हेतु हितधारकों की ब्लॉक स्तरीय बैठक डीएवी स्कूल, जावर माइन्स में 31 जुलाई, 2018 को आयोजित की गई। कार्यक्रम के मुख्य अतिथि उपखण्ड अधिकारी गिर्वा लोकबन्धु यादव और विशिष्ट अतिथि प्रधान गिर्वा श्री तखत सिंह शक्तावत थे।

हिन्दुस्तान ज़िंक, जावर माइन्स के साइट प्रेसीडेंट राजेश कुण्डू ने आस-पास में घटी 4 सड़क दुर्घटनाओं का उल्लेख करते हुए कहा कि सड़क सुरक्षा का अनुसरण करना ही एक नागरिक के लिये विकल्प है, जो स्वयं उसे, परिवार और समाज को सुरक्षित जीवन दे सकता है। जावर माइन्स के सेफ्टी हेड विक्रम सिंह पंवार ने अपने विचार रखे। ब्लॉक स्तरीय इस कार्यशाला में शिक्षा विभाग स्वामी विवेकानन्द विद्यालय श्रीमती अनिता व्यास, सिंघटवाड़ा से प्रधानाचार्य अनिल कुमार जैन, जावर विद्यालय से रेखा चौहान, देवेन्द्र कुमार गुहिल ने भाग लिया। जावर माइन्स से थेरेस डोवर हेड इओएचएस, सचिन सामर सिविल से अरुण श्रीमाली, प्रदीप भट्ट ऑपरेशन हेड एच.पी. कलावत, सेक्युरिटी हेड, रिषिराज शेखावत, प्रिंसिपल डीएवी हरबन सिंह ठाकुर, मंजरी फाउण्डेशन से प्रभु लाल सालवी, बीएसएलडी से महिपाल सिंह सहित 85 हितधारकों ने भाग लिया। कार्यक्रम का संचालन जावर माइन्स की सीएसआर टीम ने किया।

Road Safety Awareness Program at RAM

In June & July, 2018, Road Safety Awareness Program was organized at Rampura Agucha Mine. The purpose of program was to spread awareness amongst the stakeholders of nearby villages. The awareness was spread in 7 Shiksha Sambal Schools through Poster Making and Essay Writing Competition. In all, more than 1000 students were benefited through awareness program.



Hindustan Zinc gives Narulal his means of Earning



Narulal belongs to a very small village called Gujjar Khara in the district of Chittorgarh. With an ambition to earn some money, he travelled to Jalgaon district in Maharashtra and opened an ice cream stall. However, that business did not fare well and feeling dejected, he decided to come back to Rajasthan in 2015. Here he gave another try to open a tea stall which failed again. One day while crossing a railway track, he unfortunately met with an accident by a speeding train and lost his leg. Narulal had lost all hopes in life. Because of his physical condition, his wife also left him. While Narulal was still going through a terrible phase of life, he lost his father. Narulal in spite of his disability had to solely take care of his old mother. Completely shattered and broke, Narulal approached Hindustan Zinc for help. Under its Samadhan Project, Hindustan Zinc, with the help of its NGO partner BAIF, gave Narulal 5 female sirohi goats and 1 male sirohi goat to rear & breed, along with 20 kg of wheat and a well-built manger for the goats. By breeding these goats, Narulal had 15 goats in total. By selling 5 goats, he earned around Rs. 35,000/-. Today Narulal has 10 goats (9 females and 1 male) and by selling almost 2 litres of milk every day, he earns more than Rs. 3,000/- every month. Narulal now breeds his goats and plans to sell off 2 goats every year. Hindustan Zinc also provides his goats with timely vaccinations. Today Narulal is earning enough to suffice his mother and himself. Without any other source of income, rearing and breeding of goats had proved sufficient for him, giving him a regular income. Hindustan Zinc had indeed given Narulal a sense of independence.

President of the Farmer's Interest Group, Mishrilal proposes every farmer to become aware of the Technological Advancements in Farming



Wearing his pride in his bright orange Rajasthani Turban, Mishrilal Teli, was filled with happiness when he was elected as the President of the Farmer's Interest Group (FIG). Not only this, but he also won the first place on Farmer's Day. When asked about his farming, 65 years old farmer, Mishrilal, from a very small village of Paras Rampura in Agucha, answered in English. This not only showed his confidence, but his growth as a farmer. Mishrilal has been involved with farming since 30 years. Since 2016, he has been attending the Hindustan Zinc training and exposure visits on agricultural development. By this, his yield not only increased by many folds but also proved to give him and his wife a sense of content. Unlike other farmers, Mishrilal is now very well versed with the latest and advanced techniques of farming because he has been attending the trainings and exposure visits organized by Hindustan Zinc under its Samadhan project. On his 1,500 sq. meters of land, by using the technologies and improved methods of farming, he has been cultivating wheat. In the second year of cultivation, he saw an improved yield and hence an increase in his income by 7-8 thousand every year. Hindustan Zinc also provided him with seeds of wheat, ingredients to make organic fertilizers and insect trap. By acquiring technical knowledge about farming, Mishrilal has started his own farming and cultivation on his other land measuring 13,000 sq. meters. He advises all the farmers to learn under Hindustan Zinc's Samadhan Project and get an understanding of the technical advancements in farming and agriculture along with understanding the importance of irrigation, proper pest repellents and the quality of soil, to cultivate better yields. Mishrilal now

teaches his subordinate farmers the techniques for improved profitable farming. "Hindustan Zinc has taught me the proper methods of sowing seeds, proper knowledge of fertilizers, technological advancements in farming, without which I would not have been able to make such profits through my farming. I have grown as a farmer and as an individual...", smiled Mishrilal.

Sakhi Gayatri, now owns a Tailoring Shop in her village



The confidence on her face says it all. Her hands and legs working in sync on the sewing machine is something that makes 32 years old Gayatri self-reliant. Studied till her 8th standard, Gayatri today runs her own Tailoring Shop in her village - Chapri. Gayatri stays with her husband who is a bhajan singer, her in-laws, and her 4 children. To help her husband in running the house and educating her children, two years back Gayatri started stitching garments at home, but her efforts did not fetch enough income. In such times of difficulty, Hindustan Zinc's Sakhi Project came as a good fortune in her life. Gayatri has been a part of Bherunath Sakhi Samooch since 2017. Within one year's time, Gayatri opened her own tailoring shop in her village. With the help of the loan of Rs 2000 taken from her samooch and her savings, she bought a Sewing Machine worth Rs. 6000, for herself. Today, she earns around Rs 3,500 – Rs 4,500 on a monthly basis and helps her husband in saving for their children's education. "Hindustan Zinc has supported us entirely and is the reason for mine and other Sakhis' confidence and self-reliance. I am very grateful to Hindustan Zinc for giving us an opportunity to dream big...", says Gayatri, glazed with pride. Gayatri and other Sakhi women from her village are now coming out of their four walls and holding meetings in the village and meeting

with the Sarpanch. Hindustan Zinc through its Sakhi Project is socio-economically empowering more than 19,800 rural & tribal women in 5 districts of Rajasthan, namely Udaipur, Ajmer, Bhilwara, Chittorgarh & Rajsamand and in Pantnagar district of Uttarakhand.

21 अगस्त 2018 से चंदेरिया लेड ज़िंक स्मेल्टर के समीपस्थ पुठोली ग्राम पंचायत के 50 से अधिक दुपहिया वाहनों के दोनों ओर एआईएस-090 मानकों की रिफ्लेक्टिव टेप लगाकर अभियान की शुरुआत की गयी। इस अभियान के शुभारम्भ के समय सरपंच कोमल वैष्णव, जन प्रतिनिधि रिकल वैष्णव, चन्देरिया थाना स्टाफ, हिन्दुस्तान ज़िंक के सी.एस.आर. अधिकारी विशाल अग्रवाल, परियोजना समन्वयक तान्या पचौरी एवं प्रशिक्षक छोटू सिंह राणावत उपस्थित थे। सड़क सुरक्षा युवा समिति पुठोली के हेमन्द्र सिंह भाटी, बाबू लाल तेली ने रिफ्लेक्टिव टेप लगाने में सोसायटी की मोबाईल टीम का सहयोग किया।



देबारी ज़िंक स्मेल्टर ग्राम पंचायत के 100 से अधिक दुपहिया वाहनों के तीनों ओर एआईएस-090 मानकों की रिफ्लेक्टिव टेप लगाकर अभियान की शुरुआत की गयी। प्रत्येक दुपहिया वाहन में पीछे लाल एवं दोनो साईड सफेद रंग की टेप लगाई गई। इस अभियान के शुभारम्भ के अवसर पर युवराज टांक, प्रतापनगर पुलिस थाना के पुलिस स्टाफ कॉस्टेबल भीमसिंह यादव, हिन्दुस्तान ज़िंक सी.एस.आर. अधिकारी जरनैन फातिमा एवं सी.एस.आर. समन्वयक मोतीलाल शर्मा, सड़क सुरक्षा युवा समिति ज़िंक स्मेल्टर के त्रिलोक सालवी, सोनू लौहार एवं मोबाईल वेन के सहायक अनुदेशक मानसिंह रावत एवं पी.सी. जैन मौजूद थे।

हिन्दुस्तान ज़िंक द्वारा जावर माइंस में सड़क सुरक्षा के प्रति ग्रामीण समुदाय को जागरूक करने के लिये जावर पंचायत में रिफ्लेक्टिव टेप अभियान का शुभारंभ 24 अगस्त, 2018 को हुआ। हिन्दुस्तान ज़िंक एवं राजस्थान सड़क सुरक्षा सोसायटी के संयुक्त तत्वाधान में सभी दुपहिया वाहनधारकों के दुपहिया वाहनों पर सफेद एवं लाल रिफ्लेक्टिव टेप लगाकर युवाओं में जागरूकता का सन्देश दिया गया। जावर माइन्स के त्रिमूर्ति चौराहे पर आने-जाने वाले सभी दुपहिया वाहन पर जावर माइन्स की सीएसआर टीम ने रिफ्लेक्टिव टेप लगाई जिसमें जावर माइन्स थाने से हेड कालु लाल-थानाधिकारी, कान्सटेबल-गोविन्द सिंह एवं विनोद कुमार उपस्थित थे।

हिन्दुस्तान ज़िंक के सहयोग से मारुती में प्रशिक्षण हेतु 50 ग्रामीण युवाओं का चयन

हिन्दुस्तान ज़िंक द्वारा स्थानीय ग्रामीण प्रतिभाओं को रोजगार से जोड़ने की पहल कर मारुती में निःशुल्क आईटीआई ऑटोमोबाईल्स के प्रशिक्षण हेतु 5 ज़िलों के 50 ग्रामीण युवाओं का चयन किया गया है। इस कार्यक्रम के द्वितीय चरण में हिन्दुस्तान ज़िंक की पांच लोकेशन चंदेरिया, चित्तौड़गढ़, जावर एवं दरीबा उदयपुर, रामपुरा आगुचा भीलवाड़ा एवं दरीबा राजसमंद के 410 युवाओं ने प्रतियोगी परीक्षा में भाग लिया था।

दो वर्षीय प्रशिक्षण कार्यक्रम में सरकार द्वारा मान्यता प्राप्त आईटीआई डिग्री के अलावा मारुती द्वारा प्रतिमाह 13,000 रुपये तक स्टाईफण्ड के रूप में देने का भी प्रावधान है। भविष्य में सफलता पूर्वक प्रशिक्षण के उपरान्त चयनित युवाओं को मारुती कम्पनी में नियुक्ति दी जा सकती है। युवाओं का चयन हेतु दो दिवसीय परीक्षा का आयोजन अशोक लिलेण्ड रेलमगरा में इण्डियन इन्स्टीट्यूट ऑफ स्किल डवलपमेन्ट दिल्ली के साथ किया गया।



Community Engagement at Zawar Mines

On 21st July, 2018, community grievances were resolved at Do Nadi in Singhatwara village and Tala Phala in Krishnapura village, regarding employment by Zawar Mines team. Community members were counseled and explained that training can be given to make the youth employable in any part of the country. Community members were requested to share the list of areas in which youth want to be trained and a skilling/training program would be designed accordingly.

हिन्दुस्तान जिंक ने किया उच्च शिक्षा के लिए ग्रामीण छात्राओं का चयन



हिन्दुस्तान जिंक के ग्रामीण विकास कार्यक्रम के अन्तर्गत ग्रामीण बालिकाओं को उच्च शिक्षा शिक्षा की मुख्य धारा से जोड़ने के उद्देश्य से वर्ष 2018-19 के शैक्षणिक सत्र में वेदान्ता स्नातकोत्तर महाविद्यालय रींगस सीकर में 56 छात्राओं को उच्च शिक्षा प्राप्त करने के लिए जुलाई, 2018 में चयन किया गया है। हिन्दुस्तान जिंक अपने स्मेल्टिंग एवं माइनिंग इकाईयों के आस-पास के लगभग 18 गाँवों से 12 वीं कक्षा उत्तीर्ण कला, वाणिज्य और विज्ञान की स्नातक डिग्री प्राप्त करने के लिए चुनी गई ये बालिकाएँ वेदान्ता महाविद्यालय रींगस में आवासीय उच्च शिक्षा ग्रहण करेंगी। इन बालिकाओं में चन्देरिया लेड जिंक स्मेल्टर चित्तौड़गढ़ से 9, रामपुरा आगूचा खान से 23, राजपुरा दरीबा कॉम्पलेक्स से 5, जावर माइंस से 13, कायड माइंस अजमेर से 5 और जिंक स्मेल्टर देबारी से 1 बालिका का चयन किया गया है, इन्होंने 12वीं कक्षा में 60 प्रतिशत से ज्यादा अंक प्राप्त किये हैं।

उल्लेखनीय है कि पिछले वर्ष भी हिन्दुस्तान जिंक की इकाईयों के आस-पास के ग्रामीण क्षेत्र की 62 बालिकाओं को प्रथम वर्ष कला, वाणिज्य एवं विज्ञान संकाय के लिए अध्ययन हेतु चयन किया गया था। ग्रामीण संसाधन केन्द्र द्वारा चयनित गरीबी रेखा से नीचे परिवार की ये छात्राएँ तीन वर्षीय स्नातक पाठ्यक्रम में अध्ययन करेंगी। अब तक हिन्दुस्तान जिंक की सभी इकाईयों से अब 116 छात्राएँ रींगस गर्ल्स कॉलेज में अध्ययन कर रही हैं।

Skilling Initiative at RAM & RDC

A Skilling Initiative was undertaken at Rampura Agucha Mine on 3rd September, 2018. The objective of program was to enhance skills and provide employment. A BPO Centre was inaugurated on 29th August, 2018 by Rampura Agucha Mine team. The centre has been established for giving training & employment opportunities in BPO Centres to the nearby rural youth.

20 students were sent to Jaitaran for short term skill development in Security Guard and Micro Finance by Rajpura Dariba Complex team. 17 students have been given offer in Udaipur and Beawar after successful completion of the short program. Towards new skilling opportunity for graduate youth, a new BPO training has been started at Railmagra. More than 20 youths are undergoing training on communication and soft skills in collaboration with IISD. These youths will be placed after completion of the course.

Organ Donation Drive at HZL

Hindustan Zinc and Dainik Bhaskar have collaborated on a noble cause to initiate awareness and sensitization in communities, on Organ Donation around all Hindustan Zinc operating areas. The drive was held in July, 2018.

On 23rd July, 2018, IBM Personnel visited Zawar Mines for 5-star rating of various CSR projects on women empowerment, farm-based livelihood activities, education, sports and infrastructure projects.

Recipe Trials were held in Khushi Anganwadi Centres of 5 villages to encourage preparation and consumption of nutritious food in quarter 2. The program saw a participation of over 135 women from the community. Community women were taught how to make khichdi using vegetables from kitchen garden as well as how to make 'murmure kheer' for themselves and for the children.



Meetings were also arranged at 2 Khushi Anganwadi Centres (AWCs) in quarter 2 which included repeated meetings with the community, the PRI, parents of the AWC children, as well as the Anganwadi worker, helper & ASHA worker. This has resulted in increase in the attendance of AWC at Dai Phala, Kevda ki Naal.

Award Ceremony for Meritorious Students at CSC & RAM

An Award Ceremony was organized for meritorious students of Shiksha Sambal School on 30th July, 2018. This was first time in Chittorgarh where Government School toppers were appreciated and given prizes. Total 146 students were awarded including Sports Players along with their parents. Best performing school and teachers were also given prizes in the event. The objective of event was to encourage government school students for performing well in future and getting success. More than 500 students participated along with District Education Department, School Staff, village representatives and parents.



A felicitation program under Shiksha Sambal was held at Rampura Agucha Mine on 9th August, 2018. Vidya Bhawan Society, students of Govt. School & School Administration were involved in the program. The objective of program was to felicitate the students of Shiksha Sambal Schools and Board District Toppers under the Program.

Health Camps at Zawar Mines

Under Hindustan Zinc Khushi Project, Health Camps for about 700 children in Sarada block and 256 children in Girwa block at Anganwadi centres in Zawar location were organized in quarter 2.

चन्देरिया में आयोजित परामर्श और रक्तदान शिविर

चित्तौड़गढ़ में चंदेरिया लेड जिंक स्मेल्टर एवं जेके फोर्टिस हॉस्पिटल द्वारा निःशुल्क चिकित्सा शिविर का आयोजन 29 जुलाई, 2018 को किया गया। इस शिविर में स्त्री रोग विशेषज्ञ डॉ. कमला कंवराणी, हृदय रोग विशेषज्ञ डॉ. सीपी पुरोहित, आंत रोग विशेषज्ञ डॉ. अंकुर सेठिया एवं मूत्ररोग विशेषज्ञ डॉ. मुकेश सेवाग द्वारा 144 महिलाओं व पुरुषों को परामर्श व रोगों से बचाव के उपायों के बारे में बताया गया। शिविर का उद्घाटन चन्देरिया लेड जिंक स्मेल्टर के इकाई प्रमुख – श्री आर.एस. आहूजा, एच.आर. हेड – श्री अनागत आशीष, मुख्य सुरक्षा अधिकारी एवं प्रशासन हरपाल कर्नल हरि भगवान एवं यूनियन के वरिष्ठ सचिव – श्री घनश्याम सिंह राणावत ने किया। इस अवसर पर जिंक हॉस्पिटल की वरिष्ठ महिला चिकित्सा अधिकारी – डॉ. सोनिया जैन, फिजियोथेरेपिस्ट श्री ईश्वर भाणावत एवं चिकित्सालय की टीम ने सक्रिय सहयोग दिया।

गुलाबपुरा में सखी परियोजना के तहत सिलाई सेंटर का उद्घाटन

गुलाबपुरा में स्थानीय हैप्पीनेस सेंटर पर हिंदुस्तान जिंक द्वारा सखी परियोजना के माध्यम से सिलाई प्रशिक्षण शिविर का उद्घाटन जिला कलेक्टर शुचि त्यागी के मुख्य आतिथ्य में किया गया। इस अवसर पर नगर पालिका अध्यक्ष धनराज गुर्जर, विधायक प्रतिनिधि राजेंद्र कुमार गुर्जर, नगर पालिका उपाध्यक्ष प्रदीप राका एवं उपखंड अधिकारी नंदकिशोर राजोरा विशिष्ट अतिथि के रूप में उपस्थित थे। हैप्पीनेस सेंटर अध्यक्ष अंतर्राष्ट्रीय निशानेबाज जी.एल. यादव ने हैप्पीनेस सेंटर पर संचालित कार्यक्रमों के बारे में जानकारी दी। प्रशिक्षण पाने वाली महिलाओं सहित बड़ी संख्या में महिलाएं उपस्थित थी। हिंदुस्तान जिंक से सीएसआर दलपत सिंह चौहान, रुचिका चावला एवं रूपल भार्गव सहित मंजरी फाउंडेशन के संजय शर्मा, नरेश नयन एवं आसिफ हुसैन उपस्थित थे। कोठिया और गुलाबपुरा में संचालित सखी सिलाई सेंटर में 130 महिलाएं सिलाई सीख रही हैं। हिंदुस्तान जिंक द्वारा सखी परियोजना के तहत रामपुरा आगुचा क्षेत्र में 30 गांवों की 242 महिला सखी समूह से 3000 महिलाएं जुड़ी हैं।



Nayi Pahel at Kayad Mine

It has been observed that there are children from underprivileged section of the society who are out of school, rather engaged in other activities like rag picking, working on tea stall, etc. Kayad Mine team has taken up a new project to mainstream 50 street children to school with district administration. The School admission ceremony was held on 3rd July, 2018 at Secondary School, Chorasiyawas.

Sakhi Project at Zawar Mines, RDC, RAM & ZSD

18 Village Organization meetings were held on monthly basis under Sakhi Project at Zawar Mines in quarter 2. Compliance for road safety rules, usage of crash helmets and income generation activities were also discussed with women of SHGs.

270 Self Help Groups (SHGs) have been formed till July, 2018 in collaboration with NGO partners under Hindustan Zinc Sakhi Project. Total of 3322 women across 27 villages have been covered in these SHGs. Under the Women Empowerment Project, till date, total 16 VOs (Village Organizations) have been formed in 16 villages around Rajpura Dariba Complex. SHGs have opened their Bank accounts that have been raised to total of 202 bank accounts up till August, 2018.

Tailoring Centre was started at Sunariyakheda village under Sakhi Project where 27 women participated in the tailoring program.

In June & July, 2018, 2 CRP rounds have been undertaken in Rupaheli and Khati Kheda village at Rampura Agucha Mine. The purpose of program was to build various Self Help Groups (SHG). At Rupaheli, 16 SHGs consisting of 180 women and at Khati Kheda, 21 SHGs consisting of 250 women were formed. Also, a Village Organization (VO) was formed at 4 villages consisting 25 SHGs involving 290 women.

Training centers under Sakhi project are training rural women and helping them to learn new skills and to enable them to become self-reliant. This program is running with partner NGO and running two centers at present. One Production centre running at Udaisagar Chourha benefiting 24 women and other on Mukesh work is running at Jharno ki Sarai, where about 15 women are regularly getting trained.

This time on Raksha Bandhan, these women came up with the idea of celebrating Raksha Bandhan by making Rakhis for Hindustan Zinc employees and installing stalls of Rakhis from 23rd - 25th August, 2018.



Samadhan Project at CSC, RAM, RDC & Zawar Mines

930 farmers were provided input support under Hindustan Zinc Samadhan Project at Chittorgarh. Among these, 510 were PoP famers who have been provided input support for irrigated lands whereas, 420 farmers have been provided input support for rain fed lands. 95 farmers from nearby villages were identified for lemon, mango, papaya and apple-plum orchards. 3178 running feet bunding is carried out in the farms of 18 farmers. Also soil testing has been carried out at 396 farms to assess the soil fertility. Through two Artificial Insemination centres, 150 Artificial Inseminations were carried out.

During July, 2018, under the Samadhan Project, 415 farmers are undertaking rain-fed farming along with other 250 farmers getting benefited by being provided with fertilizers, seeds, seed treatment medicine and other technical supports by Rampura Agucha Mine team.

72 new wadi have been established till date by Rajpura Dariba Complex team. Farmers were also supported with pit filling material. However, in old wadis, nutrients (NPK), pesticides and crates were made available to more than 50 farmers. 453 farmers from the nearby villages of Rajpura Dariba Complex have got associated with rain-fed package. There were many interventions which were part of package like deep ploughing, compost pit and furrow that were carried out. To improve the saline soil selection of 64 beneficiaries, Gypsum, Doros Manure and Sulphur content were given by Rajpura Dariba Complex team. To attain high value vegetable production, vegetable seed support for batch-2 was given to 60 beneficiaries by Rajpura Dariba Complex team. This included distributing chilli seeds, tomato seeds and capsicum seeds.

The Samadhan Project is being implemented with the help of an NGO partner by Rajpura Dariba Complex team. Under the POP Package, 500 farmers were supported with crops like maize/urad/soyabean. Seed treatment and IPM support of pheromone traps and cloropyrofos were also provided. Under vegetable cultivation, in Batch 2, 55 beneficiaries received the seeds of chilies, ladyfinger, capsicum, bottle gourd and ridge gourd by Rajpura Dariba Complex Team.

Registration and Baseline Survey of 350 farmers was carried out under Samadhan Project in quarter 2. 28 farmers identified under the project, belong to middle class families owning 1 bigha land and irrigation facilities to enhance their annual income. The farmers from Kanpur, Newatalai, Singhatwara – Talaya phala, Tidi and Zawar villages, were provided with hybrid papaya plants along with fencing materials, organic fertilizers and spray pumps.

ज़िंक द्वारा समाधान परियोजना में जावर के 23 किसान लाभान्वित

हिन्दुस्तान ज़िंक द्वारा बी.आई.एस.एल.डी के सहयोग से संचालित 'समाधान' परियोजना के अन्तर्गत फलोद्यान हेतु जावर माइंस क्षेत्र के 23 चयनित किसानों को वृक्षारोपण हेतु नींबू, आम व पपीता के पौधे वितरित किये गये। समाधान परियोजना के अंतर्गत किसानों की आजीविकोपार्जन हेतु फलोद्यान विकसित किये जा रहे हैं। इन किसानों को परियोजना में ड्रीप इरीगेशन सिस्टम, फैंसिंग, पौधे और खाद व दवाई प्रदान कर उन्नत कृषि तकनीक की जानकारी एवं प्रशिक्षण दिया जाएगा।

संकुल प्रभारी—श्री महिपाल सिंह राठौड़ ने किसानों को फलदार पौधों के महत्व के बारे में बताया तथा तकनीकी जानकारी उपलब्ध कराई। जावर माइंस की सी.एस.आर हेड श्रीमती अरुणा चीता, श्री शुभम गुप्ता ने किसानों को फलदार पौधे, फैंसिंग, स्प्रैपम्प, स्केटियर का वितरण किया और उपस्थित किसानों से बातचीत कर उनसे योजना के बारे में फीडबैक प्राप्त किया।



पशु चिकित्सा शिविरों में 271 पशुपालक लाभान्वित

जावर माइंस द्वारा 'समाधान' परियोजना में जावर जावर में आसपास के 14 गाँवों में पशु चिकित्सा शिविरों का आयोजन किया गया। जिसमें कुल 271 पशुपालकों के 4036 पशु लाभान्वित हुए। पशु चिकित्सा शिविर के अन्तर्गत पशुओं को डिबर्मिंग, वेक्सिन, ए.आई. तथा बारिश से होने वाले रोगों के बचाव हेतु पशुओं का टीकाकरण व दवाई हिन्दुस्तान ज़िंक द्वारा निःशुल्क उपलब्ध किया गया। शिविरों में पशु विभाग टीडी से पशु चिकित्सक अधिकारी – डॉ. ज्योति मीणा, पशु सहायक – श्री रतनलाल और जावर से पशु सहायक – श्री गोविन्द ने सहयोग प्रदान किया।

हिन्दुस्तान ज़िंक के सहयोग से वन विभाग ने किया पौधों का वितरण

उदयपुर शहर को हरा-भरा बनाने एवं पर्यावरण संरक्षण हेतु वर्षा ऋतु में हिन्दुस्तान ज़िंक व वन विभाग के संयुक्त तत्वावधान में पौध वितरण कार्यक्रम 23 अगस्त, 2018 को आयोजित किया गया। वन विभाग, उदयपुर ने हिन्दुस्तान ज़िंक के सहयोग से 20,000 हजार पौधों का वितरण किया है। इस कार्यक्रम के तहत राजकीय एवं सार्वजनिक भूमि पर पौधारोपण हेतु अनेक संस्थाओं 'पुकार फाउण्डेशन', विद्यालय, मोहनलाल सुखाड़िया विश्वविद्यालय, आई.आई.एम. उदयपुर एवं उदयपुर मिलिट्री कन्टोनमेंट को 6000 से अधिक फलों एवं अन्य पौधे वितरण किये गये हैं। उदयपुर वन विभाग की शिल्पग्राम नर्सरी में पौधे वितरण के दौरान उदयपुर क्षेत्र के क्षेत्रीय सीसीएफ-श्री आई.पी.एस. मथारू, डीएफओ-श्री आर.के जैन, डीसीएफ नार्थ-श्री ओ.पी. शर्मा एवं हिन्दुस्तान ज़िंक के श्री वी.पी. जोशी, सुनील वशिष्ठ, हंसा व्यास एवं निधि श्रीवास्तव उपस्थित रहे।



इसी क्रम में एक दिवसीय 'छाया अभियान' के तहत हिन्दुस्तान ज़िंक कॉलोनी में कर्मचारियों एवं उनके परिजनों के लिये 'यूनिक/ईनोवेटिव सेल्फी विद प्लान्ट' प्रतियोगिता आयोजित की गयी जिसमें कॉलोनी वासियों ने उत्साहपूर्वक ज़िंक कॉलोनी में पौधारोपण किया।

Artificial Insemination Camp at RDC

267 Artificial Insemination services were done in both core and peripheral villages by Rajpura Dariba Complex, under the Animal Husbandry Samadhan project. 100% follow up was attained from program for first year of project.

उन्नत नस्ल एवं गौ वत्स प्रदर्शनी का आयोजन

हुरड़ा में रामपुरा आगूचा, के सौजन्य से समाधान परियोजना के अंतर्गत ग्राम सुल्तानपुरा में आयोजित उन्नत नस्ल एवं वत्स प्रदर्शनी का आयोजन किया गया। गाँव के वरिष्ठ एवं अतिथियों ने प्रदर्शनी में आये बछड़े-बछड़ियों का तिलक कर कार्यक्रम की शुरुआत की। बायफ के बाबुलाल कुम्हार ने हिन्दुस्तान ज़िंक एव बायफ संस्था के सौजन्य से चलाई जा रही समाधान परियोजना की गतिविधियों की जानकारी दी। इस अवसर पर 20 पशुपालकों को श्रेष्ठ बछड़ियों के लिए अतिथियों द्वारा सम्मानित किया गया। कार्यक्रम में एम.एस. नाडोदा, दुर्गाशंकर, कुन्दन सिंह, राजेन्द्र, पुष्पेन्द्र, शब्बीर, इरफान, पशुपाल विभाग से प्रमोद, प्रहलाद, रामपुरा आगूचा माइंस सीएसआर विभाग से हेड सीएसआर दलपत सिंह चौहान, रुचिका नरेश चावला व रूपल सहित ग्रामीण एवं पशुपालक उपस्थित थे।



कायड़ माइंस द्वारा संचालित समाधान परियोजना के तहत ग्राम कायड़ में आयोजित उन्नत नस्ल एवं गौ वत्स प्रदर्शनी में किसानों को पशुओं में होने वाली बीमारी एवं पशु स्वच्छता के बारे में जानकारी दी। इस मौके पर डॉ. जे.के. सिंह ने पशुओं में होने वाली बीमारियों, टीकाकरण एवं कृत्रिम गर्भाधान की जानकारी दी और उन्नत नस्ल के कृत्रिम गर्भाधान से किसानों को होने वाले आर्थिक लाभ के बारे में बताया। इस मौके पर आस-पास के 11 पशुपालकों को श्रेष्ठ बछड़ियों के लिए सम्मानित किया गया। इस दौरान समाधान परियोजना समन्वयक विमल कुमार सोनी द्वारा किसानों को परियोजना संबंधित अन्य आवश्यक जानकारियाँ दी गईं। कार्यक्रम में डॉ. अनुकूल पारीक, आलोक कुमार, प्रेम प्रकाश जांगिड़, पूर्व संरपच गगवाना असलम पठान, खुशवन्त सहित ग्रामीण एवं परियोजना से जुड़े किसान व परियोजना फील्ड कॉर्डिनेटर व सीएसआर फील्ड स्टाफ मौजूद रहे।

Animal Husbandry Camp organized at RDC

Animal Husbandry Camp was organized by Rajpura Dariba Complex team wherein 19 Animal Husbandry Camps were arranged at Malikheda, Naya Dariba, Rajpura and Mata ji ka Kheda villages, which benefitted 4900 animals of 665 families. Under Heat Synchronization, 995 animals were selected, of which pregnancy diagnosis of 552 animals were conducted.

Plantation Drive at RAM

On 22nd July, 2018, a plantation program was organized at Jaisinghpura village by Rampura Agucha Mine team, NGO partner, school teachers, villagers and students together. The aim of the program was to do plantation on the barren land and make the environment green.



Plantation at Kayad Vishram Sthali

On occasion of World Environment Day, 1500 saplings were planted at Kayad Vishram Sthali. The event was chaired by Mr. Ameen Pathan - Dargah Committee President. Unit Head - Mr. Balwant Singh Rathore along with Dargah Committee Nazim and HZL employees were present during the event.



World Environment Day at PMP

Plantation drive was initiated by Pantnagar Metal Plant team. Under this initiative, fruit bearing plant saplings were planted and around 200 saplings were distributed to Sakhi self-help-groups and Nand Ghar. The motive behind the initiative was to promote plantation and awareness about the harm that different types of pollution does to the environment and how to reduce them.

हिन्दुस्तान ज़िंक द्वारा सड़क सुरक्षा पर विजेता प्रतियोगियों को पुरस्कार

कायड़ माइंस अजमेर एवं सड़क सुरक्षा सोसायटी द्वारा ज़िले में भी सड़क सुरक्षा के प्रति जन जागरूकता का कार्यक्रम किया जा रहा है जिसके अन्तर्गत आयोजित हुई सड़क सुरक्षा प्रतियोगिताओं स्लोगन, प्रश्नोत्तरी, निबन्ध लेखन, पोस्टर, कहानी लेखन, वाद-विवाद एवं सांस्कृतिक कार्यक्रम में प्रथम, द्वितीय व तृतीय विजेता विद्यार्थियों के पारितोषिक वितरण समारोह शिक्षा संबल विद्यालयों में आयोजित किये गये। जिसके अन्तर्गत विद्यालयों में पुरस्कार वितरण समारोह आयोजित किये गये। पारितोषिक वितरण समारोह में सरपंच घूघरा पूजा भंसाली, समाज सेवी हसन मोहम्मद गगवाना, समाजसेवी सत्यनाराण भंसाली, सी.एस.आर. कॉडिनेटर नम्रा, शिक्षा सम्बल विद्यालयों के प्रधानाचार्य मुकेश शर्मा माकड़वाली, आभा जैन लोहागल, सुनिता गोयल चाचियावास गर्ल्स, मुकेश कुमार चाचियावास, मुध गुप्ता कायड़, डॉ. शाहिदुल हक चिश्ती गगवाना, मधु राजपूत घूघरा एवं नोडल शिक्षक राजसुमित्रा पारीक, सुधा शेखावत, दिनेश दत्त, सरोज जानू, डॉ. नीलम, रामकरण मीणा राजस्थान सड़क सुरक्षा सोसायटी की परियोजना समन्वयक तान्या पचौरी उपस्थित थे।

नेत्रहीन विद्यार्थियों ने एंड्रॉइड स्मार्टफोन से पढ़कर सुनायी कविता और कहानी

भीलवाड़ा पुलिस अधीक्षक डॉ. रामेश्वर सिंह ने हिन्दुस्तान ज़िंक के 'जीवन तरंग – ज़िंक के संग' कार्यक्रम को अनूठी पहल बताया। उन्होंने मूक बधिर बच्चों के परिवारजनों को भी धन्यवाद दिया जो कि इन बच्चों के उत्साह में शामिल हैं। बच्चों ने उन्हें एंड्रॉइड फोन पर कविता और कहानी सुनायी। हिन्दुस्तान ज़िंक द्वारा विशेष योग्यजन बच्चों के लिए 'जीवन तरंग – ज़िंक के संग' कार्यक्रम के तहत बधिर बाल कल्याण समिति भीलवाड़ा के सभी नेत्रहीन विद्यार्थियों को दिसम्बर, 2017 में एंड्रॉइड स्मार्टफोन दिये गये थे। एंड्रॉइड स्मार्ट फोन से अब ये विद्यार्थी डिवाइस एक्सेस कर पढ़ने और लिखने में सक्षम हैं। इन स्मार्टफोन से अब ये विशेष योग्यजन बच्चे विश्व की सबसे बड़ी ऑनलाईन उपलब्ध लाइब्रेरी बुकशेयर से डेजी फॉर्मेट में पढ़ रहे हैं, जिससे वे सामान्य विद्यार्थियों की तरह ही अकादमिक अध्ययन में सक्षम हो कर उनसे प्रतिस्पर्धा में समर्थ हैं। इन फोन के माध्यम से ये विद्यार्थी जहां इंटरनेट के माध्यम से वैश्विक ज्ञान प्राप्त कर पा रहे हैं वहीं विशेष रूप से नेत्रहीनों के लिए डिजाइन किये गये मोबाइल गेम्स और म्यूजिक का आनंद भी ले रहे हैं।

Hindustan Zinc organized Workshop on Menstrual Hygiene & Sexual Violence



Hindustan Zinc under Jeevan Tarang program organized three workshops on Menstrual Hygiene & Sexual Violence for deaf girl students from 5th to 12th class at Viklang Kalyan Samiti - Udaipur, Badhir Baal Kalyan Vikas Samiti – Bhilwara and Badhit Baal Vikas Samiti – Ajmer, in Rajasthan. The faculty of the workshops was Ms. Jisha Sibbu – a deaf trainer from Noida Deaf Society. The workshop was filled with discussions pertaining to orienting the girls on good menstrual hygienic practices and also to sensitize them on various complications arising due to lack of hygiene during their menstrual cycles. Apart from hygiene, the workshop also focused on opposing and preventing Sexual Violence. It was first of its kind

workshop in these three cities. 56 teen girls along with 12 teachers participated in the workshop.

Mukhyamantri Annapoorna Yojana at Zawar Mines

Mukhyamantri Annapoorna Yojana was held at a Government School at Singhatwara in Zawar on 2nd July, 2018. This Yojana launched by the Government involves taking care of nutritional aspect of children by providing students of Government primary schools with minimum of 100 ml of milk everyday. The initiative was inaugurated by Mrs. Aruna Cheeta - CSR Lead Zawar Mines at Singhatwada Government School.



GETs attended CSR field visit to ZSD, RDC & Zawar Mines

On 21st July, 2018, 80 Graduate Engineer Trainees (GETs) had attended CSR field visit to Zinc Smelter Debari. They visited SHGs, Nand Ghar, Anganwadi Centres, Training Centres and Football Epicenters.

A CSR visit was organized for the August, 2018 batch of Dariba Smelting Complex GETs (Graduate Engineer Trainees) on 22nd August, 2018. The visit was to make them aware of the work being done towards strengthening Anganwadis and improving health and preschool education facilities for children (0 to 6 years).

More than 40 GETs visited Zawar location CSR sites for orientation towards various CSR activities and projects on 18th August, 2018.



Inauguration of Kayad Circle

Under Safety Project, Kayad Mine team has constructed Circle around Kayad Choraha for betterment of road safety & easing of traffic at the road junction connecting Ajmer to nearby villages. It was inaugurated on 14th July, 2018 by MLA – Mr. Suresh Singh Rawat. During the program, Unit Head - Mr. Balwant Singh Rathore spoke about various CSR initiatives undertaken by Kayad Mine team.

10,000 Rural People to get Safe Drinking Water by Hindustan Zinc

Hindustan Zinc has installed two water purifying RO Plants in 2 Panchayats of Udaipur namely Maharaj Ki Khedi and Mandesar in Tus Dangiyan covering 4 villages. Each plant will function with a purification rate of 1000L/ hour, benefitting over 10,000 rural people of these villages.

These plants were inaugurated by the Chief Guest - MLA of Vallabhnagar, Maharaj Randhir Singh Bhindar on 30th July, 2018. Mr. Sunil Duggal – CEO, HZL and Mr. Amitabh Gupta – CFO, HZL, also visited the plant.

In association with Water Life, these installed RO plants with a capacity of 3000 litres, are built with the advanced membrane technology with the help of which the water is processed via 10 stages of purification before being dispensed and are backed up by the solar power to prevent its dependency on electricity. 20 litres of water can be dispensed at minimum amount of Rs.5. Under this project, 4 water ATMs are also installed in the areas of Peepli Kuan and Garrivas in Maharaj Ki Kedi, and slums of Mandesar and Gomati in Tus Dangiyan. The water from these ATMs is available 24x7 and can be dispensed by the people with the help of a prepaid ATM card which were given to the villagers while registering them. Apart from these ATMs, an individual mobile ATM van with a capacity of 2000 litres was also inaugurated to reach out to remote areas of the villages to which the plant is not accessible.

The opening of the event took place in a Government School of Maharaj Ki Khedi. Also present during the event were, Ms. Neelima Khetan – CSR Head, HZL, Mr. Pravin Kumar Jain – Head Corporate Relations, Mr. Manoj Nashine – Unit Head ZSD, Mr. Devilal Gurjar - Deputy Minister, Mr. Nirmal Jain – Sarpanch, Mr. Mohan Ranbaore - Co-Founder of Water Life and other village members.



Job Mapping Exercise at HZL

As part of the Jeevan Tarang Program that works for capacity building and inclusion of the disabled, and along with HR team, 'Job Mapping & Inclusion Assessment' for people with disabilities was done at Hindustan Zinc in quarter 2. It is the first time that such an assessment was conducted by any of the mining industry. The assessment was done by Vishesh, a specialist disability sector organization.

Water Conservation Program at CSC

This is the 3rd year of supporting Mukhyamantri Jal Swablamban Abhiyan Phase II, in which 28 water conservation structures like stop dam, anicut, deep CCT and CCT in Nagari and Semalpura villages were constructed by Chanderiya Smelting Complex team. Results of first two years were very good. Such initiatives help local villages becoming water independent.

Nand Ghar under Construction at RDC

Out of total planned 110 Nand Ghars, 54 Brown Filled Nand Ghars are under construction in Rajsamand district, and based on the site selection they are found suitable to proceed.

Stakeholder Engagement at Zawar Mines

A meeting was held with DEO on 3rd August, 2018, to get approval of running the Hindustan Zinc Football Project Day Academies, engaging students of 12 new government schools at Udaipur District Level.



Mines Visit at RAM

On 31st August, 2018, a Mine Visit of Sakhi Self Help Group was organized by Rampura Agucha Mine team. The objective of visit was to make the women aware about the process in the Mine and also regarding the safety and environment compliances followed in the mines.



News Digest...

- ◆ 50 old Wadi participants were provided input support by Rajpura Dariba Complex team.
- ◆ 100 salinity participants were provided Ber (plum) for plantation on saline plot by Rajpura Dariba Complex team.
- ◆ Pantnagar Metal Plant team has taken the initiative of kitchen garden development under the Sakhi project in nearby villages - Jagdishpur and Jaynagar in quarter 2.
- ◆ 15 farmers were sent to KVK, Udaipur to learn about best Agriculture practices by Rajpura Dariba Complex team.

Sports

राज्य स्तरीय स्ट्रेंथ लिफ्टिंग प्रतियोगिता में ज़िंक फिटनेस क्लब ने जीते पदक

27वीं राजस्थान सीनियर व मास्टर्स महिला एवं पुरुष स्ट्रेंथ लिफ्टिंग चैंपियनशिप प्रतियोगिता 16 सितम्बर, 2018 को स्थानीय फतेह सीनियर सैकेंडरी स्कूल, सूरजपोल पर आयोजित की गयी। इस राज्य स्तरीय प्रतियोगिता में विभिन्न जिलों के लगभग 150 खिलाड़ियों ने भाग लिया। प्रतियोगिता का उद्घाटन मुख्य अतिथि श्री गुलाबचंद्र कटारिया – गृहमंत्री, राजस्थान सरकार ने किया। इस राज्य स्तरीय प्रतियोगिता में हिंदुस्तान ज़िंक फिटनेस क्लब के सदस्यों ने भी भाग लिया। प्रतियोगिता में ज़िंक क्लब के सदस्यों ने अपने शानदार प्रदर्शन से इस राज्य स्तरीय प्रतियोगिता में अपना स्थान सुनिश्चित किया। उदयपुर जिला स्ट्रेंथ लिफ्टिंग संघ के सचिव व हिंदुस्तान ज़िंक फिटनेस क्लब के फिटनेस कोच श्री शेखर शर्मा ने बताया कि ज़िंक क्लब के तीन प्रतिभागियों ने इस राज्य स्तरीय प्रतियोगिता में तीन गोल्ड व एक सिल्वर मेडल प्राप्त किया। प्रतियोगिता के समापन समारोह में ग्रामीण विधायक – श्री फूलसिंह मीणा द्वारा प्रतियोगियों का मैडल द्वारा सम्मान किया गया। इस प्रतियोगिता में श्री कोमल राठोड़ ने पुरुष मास्टर्स वर्ग में गोल्ड मेडल व श्रीमती शिवकन्या राठोड़ ने महिला अपने मास्टर्स व सीनियर भार वर्ग में गोल्ड मेडल तथा सीनियर महिला वर्ग में सुश्री विशाखा पंचोलिया ने अपने भार वर्ग में द्वितीय स्थान प्राप्त किया।





Employee Engagement at RDC

A quarterly Engagement Initiative called 'Sangini', was arranged for all the employees of Rajpura Dariba Complex on 10th August, 2018. The event initiated with the cake cutting ceremony, followed by an interaction on 'Women Empowerment', which was the central theme of the event. The event involved two interesting activities, one of which was based on general awareness about leading ladies around the world and other on team work & strategy.

Renovated Canteen inaugurated at Zawar Mines

Existing canteen at Zawar Mines has been renovated and an additional dining capacity was provided. Mr. Rajesh Kundu - Director SBU, inaugurated the new canteen in the presence of other senior members on 27th August, 2018. The new facility has effectively reduced the waiting time and is accessible through biometric entry only.



Rakhi and Lifestyle Exhibition at RDC

Rakhi and Lifestyle Exhibition was conducted on 27th & 28th July, 2018, in Club House of Rajpura Dariba Complex where everyone was invited and could purchase rakhis, ethnic wear and lifestyle items.



Mytri at PMP

Mytri is being organized every month by the women club for employees spouse and female employees of the Pantnagar Metal Plant. It was held on 21st August, 2018 at Hotel Sonia in Rudrapur.

“Teachers and professors should build the capacities of the spirit of inquiry, creativity, entrepreneurial and moral leadership among students and thus, become their role model, because great dreamers always dream big...”
- Maulana Abdul Kalam Azad, First Indian Education Minister ”

हिन्दुस्तान ज़िंक के प्रधान कार्यालय में हर्षोल्लास से मनाया स्वतंत्रता दिवस

हिन्दुस्तान ज़िंक के प्रधान कार्यालय के प्रांगण में स्वतंत्रता दिवस हर्षोल्लास से मनाया गया। भारतीय गणतंत्र के 72वें स्वतंत्रता दिवस के अवसर पर समारोह के मुख्य अतिथि मुख्य प्रचालन अधिकारी – श्री पंकज कुमार ने कर्मचारियों एवं उनके परिजनों की उपस्थिति में राष्ट्रीय ध्वज फहराया एवं सभी को हार्दिक बधाई एवं शुभकामनाएँ दीं।

इस अवसर पर कर्मचारियों को सम्बोधित करते हुए उन्होंने कहा इसमें दो राय नहीं कि आजादी के इन 70 सालों में देश ने ढेर सारी उपलब्धियाँ अर्जित की हैं। देश में लोकतंत्र मजबूत हुआ है और संसद में आमजन की नुमाइदगी बढ़ी है। हाशिए पर खड़े लोग मुख्यधारा में आए हैं और संविधान ने वंचित लोगों को समानता और स्वतंत्रता के अधिकारों से लैस किया है। शिक्षा और जागरूकता से सामाजिक भेदभाव कम हुए हैं। खाद्यान्न के मामले में देश आत्मनिर्भर हुआ है और सड़क, बिजली व पानी का विस्तार हुआ है। औद्योगिकरण और कृषि उत्पादन में वृद्धि से लोगों की प्रति व्यक्ति आय बढ़ी है तथा जीवन स्तर में सुधार हुआ है।

स्वतंत्रता दिवस के अवसर कर्मचारियों के परिजनों एवं बच्चों के लिए विभिन्न खेल प्रतियोगिताओं का आयोजन किया गया था। खेल प्रतियोगिताओं में भाग लेने वाले कर्मचारियों एवं उनके परिजनों को समारोह के मुख्य अतिथि द्वारा पुरस्कृत किये गये। इस अवसर पर हिंद ज़िंक परिवार के परिजनों एवं बच्चों ने कविता एवं देश-भक्ति गीतों की प्रस्तुतियाँ भी दीं। हिन्दुस्तान ज़िंक के सिक्यूरिटी कार्मिकों द्वारा मार्च पास्ट की सलामी भी दी गई। कंपनी की सभी इकाइयों में 72वां स्वतंत्रता दिवस बड़े हर्षोल्लास से मनाया गया है।



Slogan Making Competition at RDC

As an initiative to promote people involvement in strengthening Health Safety & Environment, Dariba Smelting Complex organized a Slogan Making Competition for employees as well as for Business Partners on 9th June, 2018. The results were announced in August, 2018. Employees shared slogans in Hindi as well as in English. Major categories for the competition were Vehicle Safety, Environment, Occupational Health and 5S. The best entries have been put up with the photograph of the executives/business partner to encourage people to imbibe their meanings in daily lives.

Cricket Match at Kayad Mine

Friendly Cricket match was organized by Kayad Mine team at Kayad Vishram Sthali on 15th August, 2018. The team TCL was winner of the match.

News Digest...

- ◆ Family Picnic for the year 2018 was organized at Aaram Baagh Resorts, Pushkar on 9th September, 2018. It was accompanied with various cultural activities like kalbeliya dance, swimming, tractor safari and camel riding followed by dinner.
- ◆ Screening of movie 'Gold' was organized for all employees & their family members on 15th August, 2018 at Pantnagar Metal Plant.
- ◆ International Yoga Day was celebrated at Pantnagar Metal Plant on 21st June, 2018. The celebration was extended to the local residents as well. More than 50 local residents and HZL employees enthusiastically participated and were benefitted by the same.

“Without the help of a teacher, we will never know what we are and what we want. In this world, we all need the help of a teacher, an inspiration to be enlightened...”

- Bodhidharma, Buddhist Monk ”



THE UNDERWATER WORLD

By Maitreyee Sankhla

The underwater world always amazes me with mystery of what is lying underneath and how these creatures behave and interact in blue water. One thing is crystal clear, these Sea creatures have some amazing survival instincts through adaptations. Here are some of the sea secrets I am going to share with you that is the result of my inquisitiveness to know more about this blue world...

1. 85% of sand that builds up reef islands like in the Maldives is produced by Parrot Fish!!
2. No Dinosaurs are not the oldest, Sponges are!!
3. Octopus has not 1, not 2 but 3 Hearts!!
4. 97% of water on Earth is sea water - salty water!!
5. Mystery of Bermuda Triangle still remains!!
6. Seahorses are the only animal where the male gives birth - fascinating!!
7. More than 90 percent of all volcanic commotion occurs in the oceans and land based part gets most of the publicity!!
8. A blue whale's tongue alone weighs as much as an elephant and almost 100 people can fit in to the whale's mouth!!
9. Dolphins have small teeth, they do not use them to chew the food but they swallow it whole starting with the head - Savage!!
10. Atlantis, the legendary island that sank into the sea in a single day and night is 11500 years old!!

Oceans are home to many strange and amazing lives. What is more amazing is so far, only 5% of the earth's oceans have been explored and we have already identified about 230,000 water animal species. Marine life is not just adventurous but is full of surprises!

These underwater world is definitely full of fun, information, and mysteries!!

समझौता

एक नदी के तट पर बलुवा गांव था। उस गांव में एक पहलवान सेठ था। उसे अपने धन और बल का बहुत घमंड था। उसकी नजर में प्रेम भावना, श्रद्धा, और जरूरतमंदों की सेवा बकवास थी।

गांव वाले पहलवान सेठ से बहुत डरते थे। इसलिए उसकी बातों का कोई विरोध नहीं करता था। एक बार उस गांव में एक संत का आगमन हुआ। गांव वाले गरीब थे। वे संत की सेवा करने में असमर्थ थे। जबकि संत वहां रुकना चाहते थे।

गांव वालों की इच्छा थी कि वह पहलवान सेठ के यहां रुके। गांव वाले डर से संत को पहलवान सेठ का नाम भी नहीं बताना चाहते थे। संत ने स्वयं गांव में रुकने का निर्णय लिया। गांव से थोड़ी दूर नदी के किनारे संत एक कुटिया बनाकर रहने लगे।

धीरे-धीरे संत की संगति जमने लगी। संत शाम को प्रवचन करते थे। संत के प्रवचन की ध्वनि दूर-दूर तक सुनाई देने लगी। संत की ख्याति सुनकर पहलवान सेठ भी संगति में जाने लगा। संत के वचन सुनकर पहलवान ने भी अपना आसन बनवाया और उसी पर बैठकर प्रवचन सुनता था।

संत के वचन सुनकर पहलवान सेठ को गुस्सा आता था। संत के मुंह से धन-बल की बुराई सुनता था। पहलवान समझता था कि संत उसकी बुराई कर रहा है। संत ने कहा— मनुष्य के पास चाहे जितना धन हो, जीवन जीने के लिए 'समझौता' अनिवार्य है।

यह सुनकर पहलवान संत पर भड़क गया। उसने कहा कि संत गांव वालों को गुमराह कर रहा है। उसने संत से सवाल पूछा कि धन-बल वाले को समझौते की क्या जरूरत है? संत ने मुस्कारते हुए कहा कि जीवन बिना समझौते के एक पल भी नहीं जिया जा सकता है।

संत को पहलवान सेठ की मानसिकता समझ में आ गई। संगति में आए गांव वालों को महाभारत का प्रसंग सुनाया — गुरु परशुराम कर्ण की जंघा पर माथा रखकर सोये हुए थे। एक कर्कट कीट कर्ण की जांघ को काट रहा था। कर्ण की जंघा से खून निकलने लगा। असह्य दर्द होने पर भी कर्ण ने अपनी जांघ नहीं हिलाई। कर्ण ने सोचा जंघा हिलाने पर गुरु की नींद टूट जाएगी। यह कर्ण का एक तरह का समझौता था — श्रद्धा का समझौता।

संत ने आगे बताया— 'प्रेम का समझौता।' भंवरा कमल पर मंडराता है। कभी कभी रात होने पर भंवरा कमल के अंदर बंद हो जाता है। भंवरा चाहे तो कमल की पंखुड़ियां काटकर बाहर निकल सकता है। लेकिन वह रात भर कमल में बंद तड़पता रहता है।

पहलवान सेठ को इससे संतोष नहीं हुआ। एक दिन संत पहलवान सेठ को दोपहर में नदी के किनारे गांव से दूर ले गए। वहां एक टीला था। नदी का पानी टीले से सटकर बहता था। टीले के पास में ही थोड़ी समतल जगह थी। एकांत होने के कारण जलचर जीव-जन्तु नदी के पानी से बाहर निकल सूर्य की किरणों का आनंद लेते थे। नदी में मगरमच्छ भी रहते थे। मगरमच्छ भी दोपहर में पानी से बाहर निकलकर बालू में मुंह खोलकर पड़े रहते थे। मगरमच्छ के खुले मुंह में चिड़िया बैठकर दांतों से मांस के टुकड़े निकाल कर खाती थी।

पहलवान सेठ यह दृश्य देखकर हैरान था। चिड़िया मगरमच्छ के मुंह में बैठकर मांस खा रही है। मगरमच्छ चुपचाप सोया हुआ है।

संत ने पहलवान सेठ की तरफ देखकर कहा— 'यह जरूरत का समझौता है।' मगरमच्छ के दांतों में मांस फंस जाने से उन्हें बहुत पीड़ा होती है। दांत में मांस फंसे होने से वे खा नहीं सकते। खाने से दांत में दर्द होता है। भूख और दांत का दर्द मिटाने के लिए मगरमच्छ भी चिड़िया से समझौता करता है।

पहलवान सेठ को संत की वाणी समझ में आ गई। उसने खुद से समझौता कर लिया और सही राह पर चल पड़ा।

— पुस्तक 'बट वृक्ष की छांव' में

Stretch @ YOUR DESK



These 10 stretches you can do at your desk that will keep you bendy and feeling good. Like yoga ... at your desk.

1. Rubber Neck

Sit up tall and drop your right ear down towards your right shoulder (you don't have to touch it!) and hold for a few seconds and repeat for the left side.

2. Reach for the Stars

Interlock your fingers and reach up towards the sky, as high as you can ... keeping your palms facing up towards the ceiling.

3. Look Around

Turn your head the left and try and look over your shoulder and hold for a few seconds ... repeat on the right.

4. Bobblehead

Drop your chin down towards your chest and gently roll your head from side to side.

5. Shrugs

Raise both shoulders up towards your ears and hold for a few seconds and release. Repeat a few times for good measure.

6. Chest Opener

Bring your hands behind your back, press your palms together, sit up tall and hold for 5-10 seconds.

7. Seated Toy Soldier

Sit up tall and extend your right arm all the way up towards the ceiling. Straighten your left leg out and raise it up as you bring your right arm down and try to touch your left foot. Do 8-10 on each side.

8. Knee Hugger

With a bent knee, lift your right leg up and grab it with your arms and pull it in as close to your chest as you can. Hold for 5-10 seconds and make sure and do it on the left side, too.

9. Reach and Bend

Extend your right arm over your head and reach out as far as you can to the left and gently bend over. Hold for a few seconds and do it the other way.

10. Knee Press

With your right ankle on your left knee, gently press against the right knee a few times. Of course, after you're done with the right side, be sure and give the left side some love, too.

Ms. Aasha Meena



Ms. Aasha Meena D/o Mr. Sunderlal Meena is a student of Zinc Vidhaalya. She has been awarded with the Gold Medal in Disc Throw by Bhilwara's District Collector- Ms. Shuchi Tyagi.

हिंद ज़िंक विद्यालय अध्यापकों को
ग्लोबल टीचर अवार्ड



ऐकेएस अवार्ड अकादमी द्वारा दिल्ली में आयोजित एक भव्य समारोह में हिंद ज़िंक विद्यालय के दो अध्यापक दीपलता गौड़ और विनीत जैन को ग्लोबल टीचर अवार्ड 2018 से सम्मानित किया गया। विद्यालय की प्राचार्या बिंदु नायर व उप प्राचार्य एम. आर.वी. झा ने बताया कि उनकी इस उपलब्धि पर विद्यालय परिवार के सभी अध्यापकों व विद्यालय की प्रबंध समिति ने बधाई देते हुए उनके उज्ज्वल भविष्य हेतु शुभकामनाएँ दीं।

Naughty Raju 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.

Master Picture : Picture - 1



Oops !!!

Raju missed some,
added some...

Copied Picture : Picture - 2



- Answers: Picture 2
1. Star on the Cap of Piglet is removed.
 2. Moon on the Cap of Rabbit is removed.
 3. Balloon is added in the hand of Baby Kangaroo.
 4. A Balloon is added on the extreme left of the picture.
 5. One Swirl added on the Cap of Donkey.
 6. One Ribbon strand removed from the Gift in the middle of the picture.
 7. One Pot on the extreme left of the picture placed on the shelf is missing.
 8. One Plate is added in the cupboard on the extreme right.
 9. One Balloon is removed from the bunch of four on extreme left.
 10. Change in the colour of Pot in the hands of Pooh.

DIGITAL PRESENCE

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BE SAFE *Zindagi*

ACCIDENTS DO NOT COME BY INVITE



Neither call them, nor speak to them while driving...



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