



Hindustan Zinc increases output with LVS systems



Hindustan Zinc, the world's second largest zinc producer has boosted their operational performance at its Rajasthan lead and zinc mines in India using Loadscan's load volume scanners (LVS). Installing four non-contact, automated drive-through truckload measurement instruments by Loadscan across its oldest mine Rajpua-Dariba and mine complex Zawar to monitor the material carted by trucks going in and out.

The New Zealand-based company developed this Loadscan's custom-mounted unit (LVS-3CMX model) which is planted underground to measure crushed

ore before being taken to the surface by lift. The same underground mine has also installed the machinery, block-mounted portable unit (LVS-3BMP) at its portal to measure truckloads as they come to the surface.

The working is quite similar to 3D scan machines, when the RFID-tagged vehicles drive under the scanner, the LVS scans the truckload and creates a 3D model or surface profile. This profile is then stored on file and compared for the same vehicle when empty, where the load volume is calculated to an accuracy of around one per cent or to 0.1 cubic meters resolution point. The LVS also generates a measurement of volume rather than weight to avoid inaccuracies generated by environmental factors such as moisture and material densities.

The head of Hindustan Zinc corporate communication Pavan Kaushik said, "Loadscan has helped

to improve operational performance by managing haul-back to reveal the true shift tally. We can now accurately calculate net volumes delivered for processing. Time is also saved by minimizing the paperwork – there's no manual data entry even for the driver records or after-shift record sorting.

Kaushik added that, the production gains had been achieved due to increased trucking. The LVS had helped them achieve lower cost per tonne of material pulled while optimizing, truck loading and improving productivity. The LVS-3CMX model can be mounted virtually anywhere either directly or with the help of customizable mounts. Working fields includes locations such as mining portals, tunnels and the side of buildings. The LVS-3BMP, on the other hand, is suitable to large or long-term portable truck measurement projects where the load scanning location may be moved. ■

NALCO aims to increase turnover

Speaking at the 70th Republic Day celebrations at NALCO, CMD T K Chand laid down the ambitious plans of the company in coming years.

He said that since inception, NALCO has aimed to be a global leader and since 2015 it has started achieving global benchmark in Bauxite and Alumina production. Opening of Utkal-D coal mines will bring a turnaround in Aluminium production and will enable the company to climb the global scale. "We have a dream to see our company to be a giant global player.

"Govt. of India has cleared our proposal to float KhanijBidesh (KABIL) to acquire mining assets abroad. It



will be the second company after Oil Videsh of ONGC for acquisition of mineral assets abroad. Further our proposal to float a joint venture company with MIDHANI to produce high end aluminium is going to be cleared shortly by Govt. of India".

He commented that we have our corporate plan to increase Alumina production by one more million tonne and Aluminium production by 1.2

million tonne and to increase the turnover from the existing level of Rs. 10,000 crore to Rs. 30,000 crore. This year itself we are likely to register a gross turnover of more than Rs. 12,000 crore and a net profit of more than Rs. 1,600 crores. ■