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CASE STUDY: Mining excavator in Ranchi, India

Triple-down on Coal Mining Efficiency!

Near Ranchi, India, hydraulic excavators mine for coal and roofing slate – but with a critical difference. The conventional hydraulic fluid normally used in the excavators was removed and replaced with a DYNAVIS®-formulated hydraulic fluid.

The impact of the new fluid was carefully recorded. The highest testing standards in real work conditions, with numerous sensors, flow meters and measuring devices were maintained. More earth was moved, faster loading cycles were achieved and dump trucks were filled faster – just by changing the hydraulic fluid.

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40,000 tons of earth moved over 450 trips.

Field test conducted in real work conditions over 19 shifts with an outside temperature of 40-42° C. Field test excavators: 111mt, 567kw engine

- Fuel Efficiency in l/t went up **12.8%**
With a confidence interval of >90% (p-value 93.8%)
- Time Efficiency in minutes/trip improved **11.8%**
With a confidence interval of >85% (p-value 88.9%)
- Trip Efficiency in liters of fuel/trip increased **10.6%**
With a confidence interval of >85% (p-value 86.2%)

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National Workshop on SDMiNER & Annual Awards Function

Sustainable Development of Mineral Resources

7-8 April 2018, Hotel Clarks Khajuraho

Inaugural function of SDMiNER 2018 in progress at Khajuraho Hotel Clarks: from Left to Right : Prof S.Jayanthu, Er Anant Kumar Soni-Chairman AKS University; Dr. Akhilesh Kumar Pandey, Chairman Madhya Pradesh Private University Regulatory Commission; Prof P.K.Banik, VC-AKS University; Prof B.B.Dhar, Sri Ranjan Sahai, CG-IBM; Sri P.K.Satpathy, Director(Production), NMDC Ltd; Sri P.C.Naik, Executive Director(RMD-SAIL); Shri Sanjay Joshi, President & Unit Head, Maihar Cement Ltd & Prof G.K.Pradhan.

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Shri Anil Kumar Jha Chairman-cum-Managing Director, Mahanadi Coalfields Limited (MCL) has assumed charge of Chairman-cum-Managing Director of Coal India Limited.

Shri Sunil Kumar Jha assumed the charge of CMD, Eastern Coalfields Limited.

Shri Arun Kumar Shukla has been Appointed as Director (Operations) Hindustan Copper Ltd.

Shri Ujjwal Batria appointed as the chief operating officer of Dalmia Cement

Shri Ambika Prasad Panda has been given additional charge of Chairman-cum-Managing Director of South Eastern Coalfields Ltd.