



## **“EFFECT OF NANOPARTICLES ON PERFORMANCE OF MAGNETO-RHEOLOGICAL FLUIDS IN VIBRATION SUPPRESSION”**

*N. Maurya, K. Perumal I, T. Rahangdale & N. Sanodiya*

*Department of Mining Machinery Engineering, Indian Institute of Technology,  
(Indian School of Mines) Dhanbad, Jharkhand, India*

### **ABSTRACT**

*Vibration in any working element causes undesirable effects and affects performance. So it has to be suppressed. One of the right ways to suppress the vibration is, bypassing the vibration through a fluid medium. If that fluid medium is behaving smartly, then our objective will be achieved in efficient manner. So we are choosing Magneto rheological fluid (in short MR fluid) as a fluid medium, which is already known as a smart fluid. It is found that because of the physical property and rheological behavior it gives extraordinary results. This paper discussed the properties and operational behavior of the MR fluids in detail. It also summarizes the problems associated with the MR fluids and possible ways to make this smart fluid smarter than before.*

**KEYWORDS:** *Magneto Rheological Fluid*

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