

No. DGMS (tech) Circular 01

Dhanbad dated 3rd January, 2005

To,
The Owners, Agent and Managers
of All Coal Mines & Oil Mines

Subject: Electric Motors with Aluminium Die Cast Rotors.

While interacting with the manufactures of electric motors it has come to the notice of this Directorate that now a day with advancement of technology electric motors are being manufactured with Aluminium Die Cast Rotors. The Aluminium Die Cast Rotors are housed in a steel enclosure both for flameproof and non-flameproof motors. The use of electric motor with aluminium Die Cast may not cause any danger so long the rotor is inside the steel structure of the motor but if the Aluminium Die Cast Rotor is dismantled, assembled or exposed to explosive gas atmospheres this may cause danger due to incentive sparking.

It is therefore, required to take adequate precaution and not to dismantle, assemble or expose the Aluminium Die Cast Rotor of a motor in the explosive gas atmosphere in underground coal mines & hazardous areas in oil mines to prevent incentive sparking.

Sd/-
(Bhaskar Bhattacharjee)
Director General of Mines Safety