**Compressed Air Hoists:**

New silent air motor and an exhaust muffler are fitted. New motor is ordered from the OEM and gets fitted by the Mine. Noise level before / after: 102 dBA to 84 dBA. (300% improvement)

**Silenced Compressed air water pump**

Hose is fitted to the compressed air exhaust port of the pump. Exhaust is kept in the water being pumped at all times. Noise level before / after: 93 dBA to 75 dBA. (600% improvement)

**Diamond Drill Silencer**

A silencer installed at the compressed air discharge port of the Diamond Drills used at BRPM, to reduce the noise level emitted. Noise level before / after: 122 dBA to 101 dBA. (400% improvement)

**Mechanical Loader silencer**

Two silencers installed at the compressed air discharge ports of the Mechanical Loaders used at BRPM, to reduce the noise level emitted. Noise level before / after: 114 dBA to 105 dBA. (300% improvement)

**“Buy Quiet” Procurement Policy**

According to the Mines Health and Safety Act, 1996, Chapter 2, Section 21 it is the responsibility of the suppliers and manufacturers to ensure that any article for use at a mine must as far as reasonable practicable be without risk to health and safety. In the event of equipment not complying with specified noise level requirements, a penalty in the form of a reduction in the purchase/repair/modified price paid for the equipment will be instituted, calculated on a proportional basis, i.e. 85 dB(A) level required compared to the actual noise level.

**Compressed air control valve**

These valves are used underground on main compressed air lines to control flow and pressures. These valves cannot be converted but need to be replaced with a newly built sound attenuated unit. The silenced equipment complies with the DME’s Milestones. Noise level before / after: 97 dBA to 89 dBA. (300% improvement)