

**SPECIFICATION NO.: OFPM / SP/ R&D / AVWD / MPV (ARMY) / 11**

**(Dt. 29-03-08)**

**SPECIFICATION FOR AUDIO VISUAL WARNING DEVICE SYSTEM**  
**FOR MPV (ARMY VERSION)**

**I SCOPE:**

This specification pertains to supply of Audio Visual Warning Device system (AVWD) for Mine Protected Vehicle (Army Version). This system is intended for audio as well as visual alarm device to warn the driver by indicating on display unit (visual warning, by flickering the light) and to make high sound output (audio warning), when crossing the temperature of the engine coolant beyond the acceptable limits and the pressure of the engine oil goes below the acceptable limits, while the vehicle is running.

Audio Visual Warning Device System consists of mainly temperature sensor, Pressure sending unit, control panel / display unit, stop sound switch, all connected connectors and harness assemblies etc.,

The system is to be solid state in nature and conforms to the latest model for each component used for construction of the device.

**II Technical description for units of Audio Visual Warning Device System :**

**1) Temperature sending unit / temperature sensor :**

The temperature sensor (PT-100) of type RTD (temperature Dependent Resistor) to be supplied for sensing the engine coolant temperature. The sensor should be highly reliable, accurate and durable. The resistance value of the temperature sensor should change as per the temperature variations. The resistance versus temperature characteristics should be linear throughout its operating range.

**2) Control panel / Display unit :**

Control panel / display unit should monitor current pressure signals as well as temperature and to check both for its valid / safe range. If any of the safe range is crossed then the corresponding Audio Visual indication to get activate and to indicate on the display unit.

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