

Mfgd.as per DGMS
Guidelines

“ATD 08” AUTO DIPPER SYSTEM

Auto-Dipper System is a sophisticated electronic device that switches headlights of vehicle, to dipper mode (low beam) automatically, when the sharp high beam light of a vehicle coming from opposite direction falls on its windscreen. When this approaching vehicle passes off, Auto-dipper System switches back from dipper mode (low beam) to the original high beam position automatically. It all happens immediately without any manual efforts,



In order to avoid glare of approaching vehicle from front with high beam, the driver (of both vehicles) is required to dip light of his vehicle. At present, this is being done manually with the help of dipper switch. If driver fails to operate dipper switch, driver of other vehicle may not able to see approaching vehicle and may cause accident.

In mines due to powerful headlights of H.E.M.M. coming from opposite direction, for a few moments, Driver is not able to view objects clearly and this situation may lead to a fatal accident. Therefore Director General Mines Safety vide circular No 5 on 13th October 2010 has instructed to install Automatic Dipper System in every vehicle running in mines.

Salient features of Auto Dipper System :

1. Auto dipper System consists of sensor unit and control unit. When high beam light of approaching vehicle falls on the sensor, it gives signals to the control unit which automatically dips the headlamp beam from high to low. The moment vehicle passes away, again control unit receive the signal from sensor and changes the beam back to high very efficiently,
2. The equipment is lightweight and as an additional measure, easy to install, without disturbing the existing manual arrangement.
3. It works on the same battery voltage 24 V DC of the vehicle. (Optional 12 V DC also available against order).
4. Auto dipper System enhances driving comforts and also Safety by reducing manual operations.

TECHNICAL SPECIFICATION:

Function	Performs its function of automatic dipping of head light beam and restore of head light beam.
Voltage	Operates on 24 Volts (optional 12 V DC also available against order).
Protection	Withstand shocks & vibrations of heavy vehicles, Only Fire retardant conduit pipes are used for the safety of Harness.
Timer	Restore the head light beam within 5 seconds when vehicle from opposite direction passes.
Contact current	30 Amp.for Head Lamp
Colour	Black / White