

LDHAM

your most dependable companion



EXIDE

INDUSTRIES LIMITED

GA MINERS' CAP LAMP

- Extra Power
- More Safety
- Longer Life
- Low Maintenance
- Tough ABS Container
- See-Through Acid Level
- Integral Belt Loop
- Centre Take-off Cover
- Improved Cable Lock
- Prefocus 1 A bulb

OPERATION/MAINTENANCE

Oldham Miners' Caplamps were the first to be introduced in India in the year 1955. These lamps are manufactured at the Oldham Division of Exide Industries Limited at Chennai. Apart from having statutory DGMS Approval and BIS license for the manufacture of these lamps, the Oldham factory also has ISO 9001 : 2000 and ISO 14001 : 1996 Certifications awarded by TuV, Germany.

In addition to the existing range of products in the Mining Sector, the company has now come up with another lamp, namely GA Caplamp, for Miners' application.

The GA Caplamp is made using the new "A" Battery and the existing cable and headpiece. The new "A" Battery Container is manufactured using semi-transparent ABS (Acryl-buto-styrene) material. This material has very high impact strength. The battery lid is also made up of ABS material.

The semi-transparent nature of this battery container aids in indicating the level of electrolyte as well as gives a better look to the battery.

The belt loop is moulded integrally with the back face of the battery container. A stainless steel cover protects the intercell fuse and battery terminals.

The positive plate is of tubular construction and the active material is held in a woven polyester fibre sleeve. The negative plate grids and the positive plate spines are cast using special alloy that enables the battery to operate with minimum electrolyte loss.

There is also provision in the container for topping-up with distilled / de-ionised water.

The head piece moulding is manufactured from ABS and a toughened glass disc, locked in position by an ABS lens ring, protects the light source. The light source is a pefocus tungsten filament, Krypton gas filled bulb (1A) in a vacuum deposited reflector.

The head piece incorporates the charging contacts – the hidden negative contact protected by a lock barrel behind the cap hook and the exposed positive contact situated at the base of the moulding. The lens ring is locked in position by a special screw, which can be covered with wax to prevent and detect any unauthorized attempt to open the lamp.

The cable connecting the headpiece to the battery is a short lay type, to give maximum flexibility, without damaging the conductors and is sheathed in modified Nitrile rubber to resist oil and fatty acids.

CHARGING

The GA Caplamp can be charged through the lamp head piece using a single type charger, 10-type charger or a 102-type charger. In the case of 10-type charger and 102-type charger, 10-type charging frame and 102-type charging frame would also be required.

DISCHARGING

The GA Caplamp can be discharged through the light source (1A bulb) provided by rotating the switch knob.

At the end of 8 hrs. of discharge, the Caplamp should be connected to the Charging frame and recharged for a period of 16 hrs.

MAINTENANCE

The batteries should be checked for loss of electrolyte on a regular basis. If the electrolyte level is less than the lower mark provided on the battery, then top-up the battery with electrolyte. Do not use acid to top-up the battery.



CAP LAMP

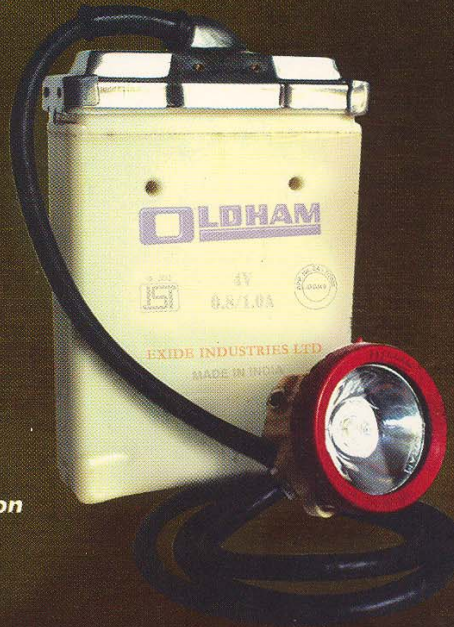
Standards Compliance IS : 5679 : 1986

Weight of complete lamp : 2.40 Kg

SPECIFICATIONS

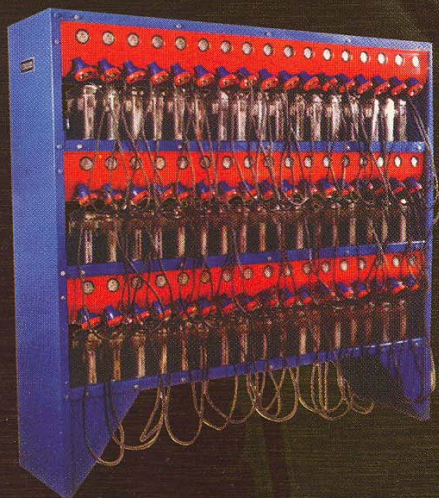
HEAD PIECE AND CABLE

Weight of headpiece	155g
Headpiece material	ABS
Number of bulbs (optional)	1 (2)
Nominal voltage of bulbs	4V
Main bulb (Krypton) rating	1.0A 44 lumens
Burning time	12+ hours
Initial light output	36 lumens
Light output at end of 10 hour discharge	20 lumens
Auxiliary bulb rating	0.46 to 0.5 A
Burning time with auxiliary bulb	30 + hours
Type of cable	Flexible twin core short lay EPR insulation
Resistance of cable	0.1 ohm



BATTERY

Weight of battery	2 Kg
Battery case material	ABS
Battery cover material	Stainless Steel
Nominal battery voltage	4V
Capacity of battery	12 Ah at 1A to 3.7 V
Cell construction	1 tubular positive plate 2 flat negative plates Synthetic absorbent mat plus microporous Envelopes
Electrolyte	Sulphuric acid fully charged 1.280 to 1.300
Voltage drop over 10 hour discharge	4.2 V - 3.8 V
Fuse rating	3 A continuous



APPROVALS

1. Directorate General of Mines Safety. (No.16 (10)2004 -Gen/820
2. ISO 9001 : 2000 (Certificate No.041009504)
3. ISO 14001 : 1996 (Certificate No. 04104296)



Marketed and serviced by
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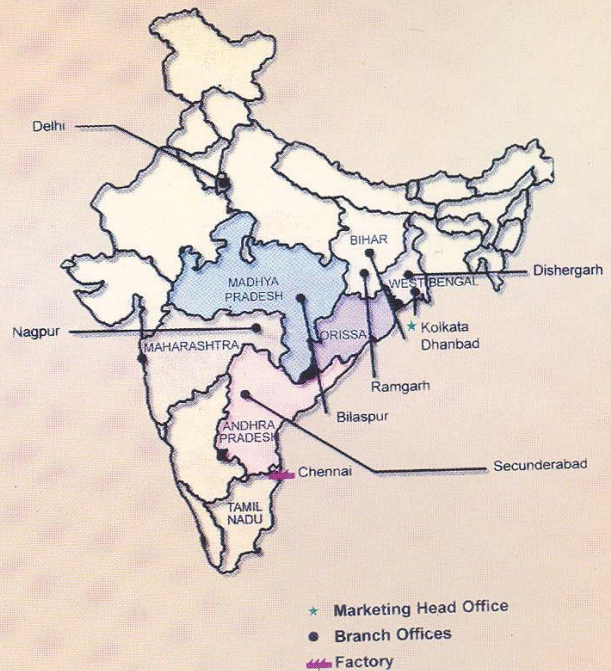
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The Cap Lamp Batteries are to be returned only to an Authorised Smelter or Manufacturer after use, as per the Ministry of Environment & Forests Notification No. 311 dt. 16th May 2001.

For further details, please contact:

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