

## Miners' Cap Lamp

Powered with low maintenance 4 Volts – 16 Ah tubular lead acid battery

Compact "EX" miners' cap lamp combines the latest in lead acid battery technology with proven lamp assembly technology to provide an ideal, durable and safe lighting source for underground use. The many design features and innovations make this cap lamp user friendly and high value for money. The battery is spill proof, robust, stable, tough and totally transparent. The battery has an ergonomic design for increased comfort while in use, without the hindrance of integral belt loops. Low gassing lead alloy positives' employed in the battery ensures low corrosion and long life.

Transparent top cover ensures proper electrical connections and compliance with safety norms. Large headpiece with vacuum deposited reflector and pre focused bulb gives a better beam and brighter spot of light. The cap lamp is well designed for safety from misuse and electrical shorts. The cap lamp can be charged in any charging rack with a facility to charge through the headpiece @ 5.1 constant voltage.



### Other Features:

- High shelf life
- Very low maintenance
- Excellent deep discharge recovery
- Wide operating temperature of  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Designed to meet Indian Standards, British Standards and South African Bureau of Standards

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## Product Specifications

### Battery

Parameter	Specification
Conforming Specifications	IS 2512 : 1978, BS 4945 : 1989, SABS 1438 : 1987
Nominal Voltage	4 V
Rated Capacity at 'C <sub>16</sub> ' rate at 25° C	16 Ah (to end 1.75 V/cell)
Recommended charging (Constant voltage)	5.1 ± 0.1 V/battery for 16 hours
Charging	"Key" type, through Headpiece
Electrolyte ( @ complete charge )	Sulphuric acid, 1.29 - 1.30 Sp. Gravity
Container and Lid	Clear Fully transparent Poly Carbonate
Weight	2.3 Kgs (approx).
Dimensions (L X W X H) In inches	5.39" X 2.37" X 8.3"
Expected Life	3+ Years

### Head Piece

Parameter	Specification
Conforming specifications	IS 5679: 1986, BS 4945 : 1989, SABS 1438 : 1987
Weight	160 g (approx)
Material	High Strength ABS
Dimensions in inches	3" (dia) X 2.6"
Lens	Heat tempered toughened glass
Controls	Single knob on/off
Reflector	Plastic / Aluminum, Vacuum deposited
Bezel ring	Poly Carbonate

### Bulb

Parameter	Specification
Conforming specifications	IS 2586: 1980, BS 535: 1987, SABS 1438: 1987
Gas filled	Krypton / Halogen
Voltage	4.0 V
Current drawn	0.75 A / 1.0 A
Rated life	200/600 hours (approx)
Output	35/45 lumens (approx)

### Cable

Parameter	Specification
Conforming specifications	IS 2593: 1984, BS 4945: 1989, SABS 1438: 1987
Conductors (number and size)	2 nos., 16 gauge
Stay cord	Triple braided cotton
Outer jacket	Synthetic rubber
Length	1.5 Mtrs.



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