

SECTION-IV
TECHNICAL SPECIFICATION (TCN No. BLN-15/2026-27)

Binoculars

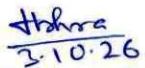
Size : 16 x 50 Roof Prism of following specification

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|-----|--|----|--|
| 1) | Magnification | :- | 16x Objective |
| 2) | Lens Diameter | :- | 50 mm Lens |
| 3) | Coating | :- | Multicoated |
| 4) | Angular Field of View (Apparent/Degree) | :- | 60.8 degree |
| 5) | Angular Field of View (Real/Degree) | :- | 4.2 degree |
| 6) | Field of View @1000m | :- | 73 m Close |
| 7) | Focus | :- | 9.0 m |
| 8) | Eye Relief | :- | 12.6 mm |
| 9) | Exist Pupil | :- | 3.1 mm |
| 10) | Prisms | :- | BaK-4 |
| 11) | Waterproof and Fog proof | :- | Nitrogen purged including following accessories-objective Lens, Cap, Rainguard, Neck Strap, carrying case and Cleaning Cloth |
| 12) | Make | :- | Nikon/Celestron/Falcon |

LED DRAGON LIGHTS

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|-----|---|----|---|
| 1) | Battery (Power Source) | :- | Must be equipped with Li-ION Battery pack having capacity 7.4 V, 7800 mAH & BIS approved Battery. |
| 2) | Mode of Brightness | :- | Selectable using single hand button High Brightness, Low Brightness, Strobe (Flash). |
| 3) | Digital LED Function indicator | :- | 1 Digital LED Function indicator showing battery status in % should be provided. |
| 4) | Runtime/Duration of Operation | | |
| | i) High Brightness Mode | :- | Minimum 4 hours |
| | ii) Low Brightness Mode | :- | Minimum 12 hours |
| | iii) Strobe/Flash Blinker | :- | Minimum 12 hours |
| 5) | Beam Distance | | |
| | i) High Brightness Mode | :- | Minimum 1000 Meters |
| | ii) Low Brightness Mode | :- | Minimum 300 Meters |
| 6) | Full Charging Time with AC Charger | :- | Maximum 10 Hours |
| 7) | Dimension (LxWxH) in mm | :- | 240 x 175 x 185 (in mm) ±2 mm |
| 8) | Front opening size (in mm) | | |
| | i) Internal Dia | :- | 131.5 mm (Nominal) |
| | ii) External Dia | :- | 174 mm (Nominal) |
| 9) | Ingress Protection | :- | IP-66 shall meet the requirements of IS/IEC-60529 |
| 10) | Total Weight including battery (without accessories) | :- | Less than 1000 gms |
| 11) | Remote | :- | Wireless Remote up to 50 Meters On-Off and 3 modes of operation should be provided. |
| 12) | Remote Operation | | |
| | i) Without obstacle working | :- | Up to 50 Meters |
| | ii) With obstacle working | :- | Up to 25 Meters |
| 13) | Operating Temperature | :- | -10°C to +55°C |

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| 14) Light Source (LED Lamp) | :- Should be equipped with 20W High Power LED 1 Nos. |
| 15) Chargers | :- AC Charger BIS approved & 12 V DC Car Adaptor should be provided. |
| 16) Casing Body Shape & Materials | :- It should be Tubular, heavy duty and water resistance material ABS (Acrylonitrile Butadiene Styrene) + PC (Polycarbonate). |
| 17) Construction | :- The LED Lamp & Battery shall be repairable by opening the body of the Dragon Light. It should be attached, shoulder strap having Pad with Connectors. |
| 18) Drop Test | :- Should withstand drop test from a height of 1 Meter |
| 19) Shoulder Strap | :- The adjustable shoulder strap should be of good quality material to withstand weight of the Light. |
| 20) Wiring | :- Internal wiring should be neat & clean using minimum number of wires for serviceability. |
| 21) Lux Output at 2 Mtr. Distance | |
| i) High Power Mode (High Brightness) | :- Minimum 8000 Lumen |
| ii) High Power Mode (High Brightness) | :- Minimum 2600 Lumen |
| 22) Lux Output with High Power Mode (High Brightness) at different distance with 100% charged battery | |
| i) At 5 Mtr. | :- Min. 300 Lux |
| ii) At 25 Mtr. | :- Min. 15 Lux |
| iii) At 50 Mtr. | :- Min. 3.0 Lux |
| iv) At 60 Mtr. | :- Min. 2.0 Lux |
| v) At 100 Mtr. | :- Min. 1.8 Lux |
| 23) BIS Certification | :- Product should be BIS marked and shall confirm to IS-10322 (Part-5/Sec-6) specification. |
| 24) Make | :- Ultrashine Technologies / Aska / FOS |


 3.10.26
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