



**Specification and Scope of work for Aviation Lamp fixture for Hazardous Area application**  
**PR No: 3410000010**

Vendor must confirm the compliance against each specification. Vendor must supply **Flexpro or Baliga** make Aviation lamps complying below specifications only. No other makes are accepted.

Specifications of Aviation Lamp fixture		
	Specifications	Complied/Not Complied
Lamp Type	LED	
Flashing	Flashing (inbuilt flasher unit)	
Intensity Type	Medium Intensity	
Colour	Red	
Minimum Required Intensity	Effective Radial Luminous Intensity of 2000 candela (Test certificate to be produced)	
LED Mounting	Multiple High Luminosity LEDs mounted in fire-retardant epoxy PCB in series-parallel circuits for redundancy	
Construction	LM-6 Alloy	
Painting	Epoxy Painted/Powder Coated Colour shade: Yellow	
Glass construction	Toughened clear borosilicate hard glass with Neoprene rubber gasket	
Weatherproof Protection	IP65 or above	
Hazardous area protection	Flame proof, suitable for usage in Zone-1&2 Gas Group IIA/IIB&IIC (as per item code description)	
Flashing Unit	Control unit (housed in explosion proof housing) having adjustable flash rate of 40 to 60 flashes per minute.	
Cable gland & Stop plug	3/4" ET FLP cable gland-2Nos; & 3/4" FLP stop plug-1Nos.	
Mounting hardware	Suitable mounting bolts to be provided	

**Testing:**

- All equipment shall be routine tested as per applicable Indian standard. The equipment shall be type tested and approval should have been there to use in hazardous area zone 1&2 gas group IIA/IIB and IIC. Valid CIMFR/NABL accredited lab test report and corresponding CCOE/PESO certificates shall be submitted by the bidder.

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## **Specification and Scope of work for Aviation Lamp fixture for Hazardous**

### **Area application**

**PR No: 3410000010**

- All Aviation lamps shall confirm to the requirement of ICAO guideline for medium intensity Type-B Aviation light having effective radial intensity of minimum 2000 Candela. A test certificate as per standard IES-LM79-08 giving effective radial intensity value in candela must be submitted by the bidder.

### **Inspection, packing and dispatch:**

- Vendor shall submit GA drawing, technical details for approval before manufacturing. The drawings shall be submitted within 1 week from the date of PO placement. The inspection will be done at MRPL store. However, MRPL reserves the right to have a factory inspection. Vendor shall give inspection call in advance.
- The equipment shall be properly packed for transportation by ship/rail or trailer. The equipment shall be wrapped in polythene sheets before being placed in crates/cases to prevent damage. Crates/cases shall have skid bottom for handling. Special notations such as, this side is up, weight, owner's particulars, MRPL material code, PO nos. etc., shall be clearly marked on the package.

### **Delivery Period and Warranty:**

- The total quantity shall be delivered within ~~18~~<sup>2</sup> Weeks from the date of PO placement, including drawing approval period.
- The vendor shall give a minimum one-year warranty for the supplied item.

### **Scope of Work for Removal and Installation of Aviation Lamps:**

#### **Vendor Scope:**

- Removal and Installation of Aviation lamps to be carried out by technicians experienced in working at height.
- The deployed technicians must be certified by MRPL hospital for working at height.
- The deployed personnel shall follow all safety practices while doing the job.
- Removed lamps and scrap to be shifted immediately to designated place as shown by EIC.
- Supervisor to be continuously available at site during the execution of job.
- Supply of hardware for installation of fixture is in vendor scope.

#### **MRPL Scope:**

- Providing necessary permits for the job.
- Providing Hydra / Crane for execution of the job.
- Payment for the supply portion will be made upon receipt and inspection of lamps. Service portion will be done for the installed quantities only up on certification of the same.

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05 11. 2024

**Annexure for relaxation to start-ups PR No. 3410000010**

**Supply and Installation of Aviation Lamps for Hazardous area**

1. They should be a registered Startup company for the said jobs. Proof of same to be submitted.
2. They should have enough qualified technical personnel for the said jobs. Qualification details of the personnel to be deployed shall be submitted.
3. To understand the site conditions and scope of work clearly, site visit is required for the participating bidders before bidding. Bidder should submit site visit MOM with MRPL EIC along with bid.
4. Non confirmation of the above, will form part of Bid Rejection Criteria.

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