



भाकृअनुप-राष्ट्रीय उच्च सुरक्षा पशुरोग संस्थान  
ICAR-National Institute of High Security Animal Diseases

(एवियन इन्फ्लूएंजा ओ.आई.ई. संदर्भ प्रयोगशाला)  
(OIE Reference Laboratory for Avian Influenza)

आनंद नगर, भोपाल - ४६२०२२ (म.प्र.), भारत

Anand Nagar, Bhopal - 462022 (M.P.), India



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F. No. 9-87/19-20/NIHSAD (P&S)

Dated: - 18.07.2019

To

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Sub:- Request for Quotation – reg.

Dear Sirs,

We intend to Purchase the following items/Fire Extinguishers as per details given below: -

Sr. No.	Description	Required Qty.
1	CO2 type Fire Extinguishers, capacity 4.5 kg.	20
2	ABC type Fire Extinguishers, capacity 6 kg.	10
	Note:- As per specification enclosed – Annexure I & II	

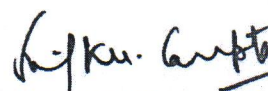
You are requested to please send us a Quotation alongwith complete/ detailed specification & leaflet/ catalogue of the above mentioned item. Please note that: -

1. Rates are to be quoted on F.O.R. NIHSAD, Bhopal (Refer Annexure – I & II).
2. Warranty is to be offered for minimum 3 years expiry date should not be less than one year. The firm ordered for supply will have to deposit 10% Security in shape of DD/FDR in favour of ICAR Unit - NIHSAD, Bhopal for the period of Warranty before supply.
3. Catalogue from OEM of Fire Extinguishers should be submitted.
4. Name of the Dealer at Bhopal, if any, may be intimated.
5. Manufacturing certificate of the firm required.
6. This institute is registered with the Department of Scientific & Industrial Research (DSIR), Govt. of India for purpose of availing custom duty exemption in terms of Government, Notification No. 51/96-Customs dated 23 July 1996 and central excise duty exemption in terms of Government Notification No. 10/97-Central Excise dated 1 March 1997. Hence, GST is also to be charged accordingly.
7. Firm may submit their GST Registration & PAN Number as a copy of proof alongwith quotation/offer.
8. E-Payment will be made within 30 days after receiving the Fire Extinguishers (as mentioned above) in satisfactory condition.
9. Validity 180 days.
10. Delivery Period: - 30 days.

The Quotation may be submitted upto 9<sup>th</sup> August 2019 in a closed envelop duly superscribed.

Yours Sincerely

Encl: - Technical Specification (Annexure – I & II)

  
(S. K. GUPTA)  
Sr. Adm. Officer

## **Technical Specifications for Portable CO2 type Fire Extinguishers**

### **Eligibility criteria for bidders:**

- Original equipment manufacturer (OEM) or authorized dealers are allowed to participate in the bid. Dealers should submit authorization certificate from OEM.
- The OEM or authorized dealers should have minimum of 5 installations or supply of Fire extinguishers in Government organizations, PSU or private limited entity in India with minimum value of 5.00 lakhs.
- The bidder should enclose OEM attested catalogue, brochures etc. to verify the specification requirements.
- Warranty should be 36 Months from the date of supply against any manufacturing defects.
- The bidder should include cost of delivery and installation of Carbon dioxide (CO2) 4.5 kg Capacity fire extinguisher at ICAR-NIHSAD, Bhopal.

### **Detailed Technical Specifications:**

#### **1. Extinguisher Body: -**

- Cylinder body should be made up of seamless manganese steel as per IS 7285 Part 1 or Part 2.
- The body should be internally and externally epoxy powder coated.
- Each cylinder should bear the unique serial number, hydro-test date and year of manufacture embossed by OEM.
- Cylinder should not be more than 6 month old as on the date of supply.
- Certificate from PESO issued by competent authority pertaining to the batch and mentioning the unique serial number should be provided along with supply.

#### **2. Valve: -**

- Valve should be hand wheel type made up of forged brass with ISI marking as per IS 3224.
- In built fusible plug and rupture disc type pressure relief device must be provided on the valve to protect the extinguisher from over pressure and/or over temperature.



- Anodized cast Aluminium Alloy or equivalent wheel should be provided for operating the valve. The valve should have aluminium collar with protective coating together with safety pin and chain.

### **3. Extinguishing Agent:**

- The extinguishing Agent, (CO<sub>2</sub> gas) should have purity of 99.5% conforming to IS 15222 and should be filled in PESO approved facility of the OEM.
- Extinguisher should be factory filled with initial charge.

### **4. Carrying Handle:**

- The extinguisher should be with double mounted handle, one on neck and other on body for user's safety and ease of handling.

### **5. Siphon Tube:**

- Siphon Tube and Strainer should be made up of stainless steel SS-304 grade as per IS 738 with thickness not less than 1.8 mm.

### **6. Hose pipe & Horn:**

- The hose pipe should be made up of high pressure thermoplastic material with wire braiding to avoid electrostatic shock to the operator.
- Hose should have minimum bursting pressure of 275 kgf/cm<sup>2</sup>.
- The horn should be of UV resistant HDPE or equivalent material with minimum length of 450 mm.
- Horn should have elliptical cross section design and metallic thread connection (W21.8 x 14TPI). Horn should have integrate handle covered in rubber grip to prevent cold burns.

### **7. Finish:**

- Cylinder should be spray painted with two coats of high glossy polyurethane PO red paint above red primer and must be cured at 120° C.

### **8. Marking:**

- Cylinder should be marked with ISI bearing CML no. BIS tracking and with UV resistant vinyl label and a QR code for product traceability.
- A unique Hologram should be provided on each extinguisher as a proof of genuineness.

- A black color band of minimum 25 mm should be pasted covering circumference of the cylinder for agent identification.

#### **9. Performance Requirements:**

- The fire rating should not be less than 21B supported by test certificate from NABL approved lab.
- The extinguisher should discharge not less than 90% of agent from its original charge capacity.
- The discharge duration should be minimum 25 seconds with bulk Range/Throw of minimum 5 meter.
- Fire Extinguisher should be capable of operating reliably within temperature range of -30° C to +55° C.
- Fire extinguisher must be suitable for Class B, Class C & electrical started fire.

#### **10. Standards & Approvals:**

- The fire Extinguishers should comply with the requirements of IS 15683:2018 and must carry ISI Mark.
- The IS 15683:2018 license of OEM should be submitted.

#### **11. Extinguishers Mounting Requirement:**

- Wall Mounting Hook/Bracket Confirming to IS 15683:2018 shall be supplied with necessary Screws & accessories for installation.

#### **12. Documentation:**

- Each Fire Extinguisher should be with operating manual and OEM should submit 3 dimensional view of the products with product sectional drawing.
- The extinguisher should be accompanied with test certificates for complete testing as per IS 15683:2018 and test Certificate for extinguishing agent from independent laboratory.
- Type test certificate copy from NABL accredited lab for the product should be submitted.
- UV resistant test certificate for plastic components as per IS 15683:2018 requirement.
- All the parts of the fire extinguisher should be from single OEM and the vendor should provide certificate from the OEM stating the genuineness & compatibility of parts.
- The Vendor should submit duly signed & sealed certificate from OEM guarantying compliance of the quoted fire extinguisher model to the specifications required.



## **Technical Specifications for Portable ABC type Fire Extinguishers, Capacity-6 Kg**

### **Eligibility criteria for bidders:**

- Original equipment manufacturer (OEM) or authorized dealers are allowed to participate in the bid. Dealers should submit valid authorization dealership certificate from OEM.
- The OEM or authorized dealers should have minimum of 5 installations or supply of Fire extinguishers in Government organizations, PSU or private limited entity in India with minimum value of 5.00 lakhs.
- The authorized dealers should enclose OEM attested catalogue, brochures, etc. to verify the specifications required.
- Warranty should be 36 Months from the date of supply against any manufacturing defects.
- The bidder should quote the cost including installation of fire extinguishers at ICAR-NIHSAD, Bhopal.

### **Detailed Technical Specifications:**

#### **1. Body of the extinguisher:**

- It should be made up of steel CR-2 grade as per IS:513-2008 and should be certified by NABL accredited lab for minimum 85 bar burst pressure and must withstand minimum burst pressure of 80 bar at welds.
- The internal & external surfaces of the body must be coated with corrosion resistant powder and cylinder must be with skirt ring.
- The OEM name, year of manufacturing, test pressure and operating temperature range must be permanently marked on the cylinder body.

#### **2. Valve:**

- The valve should be CE or equivalent marked with squeeze grip type made up of forged brass with nickel chromium plating with slots for controlled pressure release while operating.
- In built pressure release mechanism must be provided on valve to protect from over pressure.
- The pressure gauge should be removable without losing extinguisher internal pressure for periodic checking.
- Valve must withstand minimum burst pressure of 130 bars for minimum 60 sec and should bear the OEM name.
- The carrying handle should not be less than 120 mm for handling and safety pin be made up of stainless steel grade SS304 or equivalent with lead seal.

### **3. Extinguishing agent:**

- The extinguishing agent should be MAP-50 as per IS 14609 pressurized with dry nitrogen. The extinguisher should be factory filled with initial charge.

### **4. Pressure gauge:**

- The pressure gauge should have dial with minimum 30 mm diameter bearing fire Extinguisher OEM name, and other information as per IS 15683 requirement.
- Operating pressure range should be in **green or evident color** and marking between 4 bar (minimum level) and 12 bar (max level).

### **5. Siphon Tube:**

- Siphon tube should be made of PVC material with thickness not less than 1.8 mm.

### **6. Hose & Nozzle:**

- The hose should be of EPDM material with minimum bursting pressure of 40 kgf/cm<sup>2</sup> with minimum length of 450 mm.
- The nozzle should be of minimum length of 100 mm with metallic inserts for thread protection and bearing extinguisher OEM name.

### **7. Marking:**

- Cylinder should be marked with ISI bearing CML no. for BIS tracking and with UV resistant vinyl label and a QR code for product traceability.
- A unique Hologram should be provided on each extinguisher as a proof of genuineness.
- A blue color band of minimum 25 mm should be pasted covering circumference of the cylinder for agent identification.

### **8. Performance Requirements:**

- The fire rating should not be less than 4A 34B supported by test certificate from NABL approved lab.
- The extinguisher should discharge not less than 95% of agent from its original charge capacity and the discharge duration shall not be less than **14 seconds**.
- Bulk Range (Throw) should be minimum 3 m.
- Fire Extinguisher should be capable of operating reliably within temperature range of -30°C to +55°C.

### **9. STANDARDS & APPROVALS:**

- The Fire Extinguishers should comply with the requirements of IS 15683:2018 and must carry ISI Mark.
- The IS 15683:2018 license of OEM should be submitted.



#### **10. Extinguishers Mounting Requirement:**

- Wall Mounting Hook/Bracket Confirming to IS 15683- 2018 should be supplied with necessary Screws& accessories for installations.

#### **11. DOCUMENTATION:**

- Each Fire Extinguisher should be with operating manual and OEM should submit 3 dimensional view of the products with product sectional drawing.
- The extinguisher should be accompanied with test certificates for complete testing as per IS 15683:2018 and test Certificate for extinguishing agent from independent laboratory.
- Type test certificate copy from NABL accredited lab for the product should be submitted.
- UV resistant test certificate for plastic components as per IS 15683:2018 requirement.
- All the parts of the fire extinguisher should be from single OEM and the vendor should provide certificate from the OEM stating the genuineness & compatibility of parts.
- The Vendor should submit duly signed & sealed certificate from OEM guarantying compliance of the quoted fire extinguisher model to the specifications required.