

## **SUPPORT CHARGE CONTROL for 2, 3 and 4.5 Kg CO<sub>2</sub> Extinguisher**

### **1.0 SCOPE**

This specification covers the requirements regarding design, materials, fabrication, performance, testing and supply of SUPPORT CHARGE CONTROL to mount CO<sub>2</sub> Fire Extinguishers to be used for firefighting.

### **2.0 COMMON REQUIREMENTS FOR THE SUPPORT CHARGE CONTROL**

#### **2.1 VISUAL INDICATION**

2.1.1 The SUPPORT CHARGE CONTROL should have visual provision to indicate the status of contents in the extinguisher.

2.1.2 The visual provision shall indicate Full (Green band) and Empty (Red band)

#### **2.2 WEIGHT HANDLING AND CALIBRATION**

2.2.1 The support charge control should be able to support full/tare weight in the range of 5-20 Kgs to accommodate various makes of extinguishers.

2.2.2 The support charge control should be provided with a calibration mechanism to adjust the full/tare weight of various makes of extinguishers.

#### **2.3 SUPPORT GUIDES**

2.3.1 The SUPPORT CHARGE CONTROL should be provided with a removal bar with adjustable support guides to avoid contact with the wall.

2.3.2 The Adjustable support guide should be able to support CO<sub>2</sub> extinguishers made of steel/aluminium or equivalent.

### **3.0 MATERIAL OF CONSTRUCTION**

<b>Item/Part</b>	<b>Material of Construction</b>
Body	SS
Instruction Plate	PVC
Stickers	Vinyl
Screws	Aluminium

### **4.0 PERFORMANCE**

The SUPPORT CHARGE CONTROL should be able to support CO<sub>2</sub> extinguishers of capacities 2, 3 and 4.5 Kg having full weights ranging from 5Kg to 20 Kg. The SUPPORT CHARGE CONTROL should be able to accommodate all 3 capacity ranges of 2, 3 and 4.5 Kg.

## **5.0 WORKMANSHIP AND FINISH**

All the parts shall have workmanship and finish. The unit shall have no sharp edges and shall be easy to mount by a single person.

## **6.0 MARKING**

Each SUPPORT CHARGE CONTROL shall be provided with the following indications:

- a) Supplier's name/LOGO (Sticker)
- b) Setting weight instructions (Sticker).
- c) Visual Indications- FULL (Green Band) and EMPTY (RED band) (Sticker).
- d) Provision to write the Contact person and phone number for refilling and replacement (Sticker).
- e) Calibration point to accommodate various capacities (Sticker).

## **7.0 PERFORMANCE GUARANTEE**

The manufacturer shall guarantee the material, workmanship and the performance unit for a period of one year from the date of supply. The vendor without any extra cost shall rectify any mechanical defect, faulty workmanship or operational defects found during this period.

## **8.0 SCOPE OF INSPECTION & TESTING**

Prior to dispatch from vendor's shop the following acceptance tests shall be carried out by the vendor to the complete satisfaction of owner's representative/ IOCL authorized inspection agency without any extra cost to owner. All 3 capacities of extinguishers and consumable (e.g. screws, fitting accessories etc.) shall be arranged by vendor at his own cost. Vendor shall arrange all facilities to carry out inspection & testing covering:

- Weight handling capacity of the SUPPORT CHARGE CONTROL for all 3 capacities.
- Ease of calibration to accommodate all 3 capacities.
- Visual and dimensional check.

Owner or his representative shall have access at all reasonable times to vendor's works where the appliance or its accessories are being fabricated and tested.

## **9.0 Vendor Qualification Criteria (Technical)**

### **9.1 EXPERIENCE CRITERIA:**

The Vendor/Bidder must be a manufacturer of firefighting equipment's and should have supplied firefighting equipment's worth 5 crores INR to any national Petroleum OMC within the last 3 years, to be counted from the bid due date.

## **9.2 TURNOVER CRITERIA:**

The Vendor/Bidder should have a turnover of 30 crores in the last 3 financial years and its net worth should be positive.

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## **9.3 PERFORMANCE CRITERIA:**

The Vendor/Bidder must have manufactured and supplied firefighting equipment's which must be working satisfactorily for a minimum period of twelve months on bid due date. Vendor/Bidder should submit relevant documents with technical bid.

**Vendor/Bidder to submit copies of purchase/work order containing the item description, ordered quantity, proof of supply of the item in support of both the above vendor qualification criteria.**

## **10.0 INFORMATION/DOCUMENTS REQUIRED FROM VENDOR**

### **10.1 WITH BID**

- a) Details of the SUPPORT CHARGE CONTROL with bill of material.
- b) Minimum 3 reference lists of vendor showing his experience in design, manufacturing & supply of firefighting equipment's.
- c) General arrangement Plan (GAP) incorporating the stipulated inspection and testing requirements.
- d) The vendor to furnish details of supply of firefighting equipment's. Vendor will submit copy of Purchase orders with technical specifications issued by the buyer. The performance report may also be submitted. For each supply the name of buyer, P.O. No. P.O. date, technical specifications, name of contact person, e-mail, phone number etc., shall have to be furnished by the vendor.
- e) Balance sheets and net worth positive certificate from a certified auditor.

### **10.2 AT THE TIME OF SUPPLIES**

2 sets of documents (duly certified) to be provided.

- a) All inspection and testing records.
- b) Operating and instruction manual.
- c) Testing and maintenance procedure/manual.

d) Installation procedure.

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