

## FINANCIAL BID

**Name of Work:** Rate Contract for Refilling and Maintenance of Fire Extinguishers at  
Central University of Rajasthan  
NIT No. CURAJ/R/F.144/2023/4141 dtd 19.01.2023

S.No.	Description of Item	Unit	Qty.	Rate (Rs.) Incl. GST	Amount (Rs.) Incl. GST
1	<b>Refilling &amp; Maintenance of following types of Fire Extinguishers conformity with the procedure and period laid down in IS 2190:2010 and as amended time to time by BIS. This also includes the collection &amp; reinstallation of cylinders from various buildings of the University, replacement of defective spare parts like nozzle, safety clip, rings, washer, plunger, metal cap, gas cartridge, pressure gauge/horn, discharge hosepipe, squeeze grip value, lock guard or pin, control/brass/SS value etc required at the time of re-filling complete in all respects and directions of Engineer-In-Charge.</b>				
1.1	Portable Water Fire Extinguisher (Gas Cartridge type), Capacity - 9 Litre	Each	240		
1.2	Portable Carbon dioxide Type Fire Extinguisher, Capacity 4.5 Litre	Each	153		
1.3	ABC Dry Chemical Powder Fire Extinguisher (Stored Pressure Type), Capacity- 5 Kg	Each	121		
1.4	ABC Dry Chemical Powder Multipurpose Fire Extinguisher (Cartridge Type), Capacity- 6 Kg	Each	270		
1.5	Portable Mechanical Foam Type Trolley Mounted Fire Extinguisher (Cartridge Type), Capacity - 50 litre	Each	4		
2	<b>Hydraulic Pressure Testing conformity with the procedure and period laid down in IS 2190:2010 and as amended time to time by BIS. If fire extinguishers fail in Hydraulic testing then its report should be submitted to Engineer-In-Charge.</b>				
2.1	Portable Water Fire Extinguisher (Gas Cartridge type), Capacity - 9 Litre	Each	240		
2.2	Portable Carbon dioxide Type Fire Extinguisher, Capacity 4.5 Litre	Each	153		
2.3	ABC Dry Chemical Powder Fire Extinguisher (Stored Pressure Type), Capacity- 5 Kg	Each	121		
2.4	ABC Dry Chemical Powder Multipurpose Fire Extinguisher (Cartridge Type), Capacity- 6 Kg	Each	270		
2.5	Portable Mechanical Foam Type Trolley Mounted Fire Extinguisher (Cartridge Type), Capacity - 50 litre	Each	4		

3	<b>Painting</b> (atleast two coats or as required) on all types of Portable Fire Extinguishers as per Color code including removal and cleaning of old paint, labelling with all details of fire extinguisher etc as required complete in all respects. Further all as per standard practice and directions of Engineer-In-Charge. (Capacity - 4 to 10 kg)	Job	780		
4	<b>Painting</b> (atleast two coats or as required) on all types of Trolley mounted (50 ltr capacity) Fire Extinguishers as per Color code including removal and cleaning of old paint, labelling with all details of fire extinguisher etc as required complete in all respects. Further all as per standard practice and directions of Engineer-In-Charge.	Job	4		
<b>Total Amount (in Rs.) incl. GST</b>					

Seal & Signature of Bidder

**Note:**

1. The rates quoted above are inclusive of all taxes, such as work contract tax, goods & service tax, labour welfare charge, etc as applicable.
2. The work shall be strictly carried out as described in the NIT document.
3. The vendor will carry out the re-filling of existing fire extinguishers as IS norms and it shall include:-
  - A. Repair of Fire Extinguishers and Replacement of defective spare parts like nozzle, safety clip, horn water, rings, washer, plunger, Metal Cap, Gas Cartridge, Pressure gauge/horn, Discharge Pipe, Control/Brass/SS valve or any other item etc required at the time of re-filling. Charges for the same are to be included in Refilling Part of financial bid. No extra charges shall be payable in this regard.
  - B. Hydraulic Testing certificate of fire extinguishers will be submitted along with bill and no extra charges shall be payable for the certificates, as charges for the same are to be included in the Financial Bid.
4. Please read Scope of work & Special Conditions of Contract) of Technical Bid document carefully before quoting your rates.
5. Refilling and Hydraulic Pressure Testing Schedule will follow as laid down in BIS norms IS 2190:2010 (with latest amendment up-to-date).
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## ‘ANNEX D

(Clauses 11.14.1 and 12.3)

### REFILLING SCHEDULE FOR FIRE EXTINGUISHERS AND SCHEDULE FOR OPERATIONAL TEST ON FIRE EXTINGUISHERS

#### **D-1 EXTINGUISHERS TO BE REFILLED/OPERATED FOR PERFORMANCE TEST IN ANNUALLY CYCLIC MANNER**

##### **D-1.1 Once in Three Years**

- a) Portable fire extinguisher, water type 9 litre (gas cartridge).
- b) Portable fire extinguisher, mechanical foam type 9 litre (cartridge type).
- c) Wheeled fire extinguisher, water type 50 litre (gas cartridge).
- d) Wheeled fire extinguisher, mechanical foam type 50 litre (cartridge type).
- e) BC and ABC powder extinguisher confirming to IS 4308 and IS 14609 respectively.

##### **D-1.2 Once in Five Years**

- a) Portable fire extinguisher, water type stored pressure.
- b) Portable fire extinguisher, mechanical foam type stored pressure.
- c) 135 litre fire engine, foam type.
- d) Fire extinguisher, carbon dioxide type (portable and trolley mounted).
- e) Higher capacity dry powder fire extinguisher (trolley mounted).
- f) Dry powder fire extinguisher for metal fires.
- g) Clean agent fire extinguishers.

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## ANNEX E

[Clauses 12.2.1 and 12.2.2 (g)]

### SCHEDULE FOR HYDRAULIC PRESSURE TESTING OF FIRE EXTINGUISHERS

**E-1** Every extinguisher installed in premises shall be hydraulically pressure tested as per the schedule given below. There shall not be any leakage or visible distortion. Extinguisher which fails in this requirement shall be replaced.

**E-2** The carbon dioxide type and clean agent type fire extinguishers shall be pressure tested every time when the cylinders are sent for recharging ( after periodic discharge test or otherwise ) to the pressure specified in the relevant Indian Standard specifications.

<i>Sl No.</i>	<i>Type of Extinguisher</i>	<i>Test Interval Year</i>	<i>Test Pressure kg/cm<sup>2</sup></i>	<i>Pressure Maintained for min</i>
i)	Water type (gas cartridge) (IS 940)	3	35	2.5
ii)	Water type (stored pressure) (IS 6234)	3	35	2.5
iii)	Water type (gas cartridge) (IS 13385)	3	35	2.5
iv)	Mechanical foam type (gas cartridge) (IS 10204)	3	35	2.5
v)	Mechanical foam type (stored pressure) (IS 15397)	3	35	2.5
vi)	Mechanical foam type (gas cartridge) (IS 13386)	3	35	2.5
vii)	Mechanical foam type (gas cartridge) 135 litre (IS 14951)	3	35	2.5

Seal & Signature of Bidder