

|                                   |                                                                      |                  |
|-----------------------------------|----------------------------------------------------------------------|------------------|
| TC No.: KF/LI/HQ2/003/25          | Model No.: KFLIHQ-2                                                  | Date: 16-07-2025 |
| Type and Capacity of Extinguisher | : KFLIHQ-2-Lithium-Ion (AVD) Stored Pressure Fire Extinguisher 2 Ltr |                  |
| Batch Number                      | : KFLIHQ2 003/25                                                     |                  |
| Batch Quantity                    | : 51.00 Nos.                                                         |                  |
| Serial Numbers                    | : 00101 To 150 And 105A                                              |                  |
| Month of Manufacturing            | : Jul/25                                                             |                  |
| Date of Inspection                | : 16-07-2025                                                         |                  |

| Sr. Nos. | Cl. No.    | Tests and Inspection                                                                                                                                                                                                                                    | Requirements                                                                                                                 | Sampling                 | Observation |
|----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|
| 1        | --         | Extinguishing Agent                                                                                                                                                                                                                                     | Aqueous Vermiculite Dispersion (AVD) Emulsion                                                                                | One                      | Pass        |
| 2        | 5.3.2      | Filling tolerance                                                                                                                                                                                                                                       | +5% by Volume                                                                                                                | One                      | Pass        |
| 3        | 6.1        | Hydro test of the body                                                                                                                                                                                                                                  | Test pressure 35 bar, Hold for 2.5 Min.                                                                                      | All                      | Pass        |
| 4        | 7.2        | Effective discharge time                                                                                                                                                                                                                                | Approved fire rating is 1A, hence Min. duration is 8sec.<br>Sr. No. :00101                                                   | One                      | 33 SEC.     |
| 5        | 7.2        | Bulk range of Discharge                                                                                                                                                                                                                                 | Approved fire rating is 1A, hence Min. bulk range is 2m.<br>Sr. No. :00101                                                   | One                      | 2 Mtr.      |
| 6        | 3.8        | Percentage of Discharge                                                                                                                                                                                                                                 | Min. 95%, Sr. No. :00101                                                                                                     | One                      | 97%         |
| 7        | 7.4.1      | Retention of Charge following partial discharge                                                                                                                                                                                                         | The second pressure or weight shall not be less than 75% of the first after interruption of the discharge.<br>Sr. No. :00102 | One                      | 97%         |
| 8        | 7.4.2      | Leakage Test                                                                                                                                                                                                                                            | Inverted Glass Jar/ Applying Soap Solution                                                                                   | All                      | Pass        |
| 9        | 9.2        | Construction Requirements                                                                                                                                                                                                                               | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 10       | 9.2.2      | Burst test of body                                                                                                                                                                                                                                      | Burst pressure shall be 55 bar if break from body and shall be 80 bar if break from welding .<br>Sr. No. :00105A             | One                      | 140 Bar     |
| 11       | 9.3        | Carrying Handle                                                                                                                                                                                                                                         | Requirements as per IS 15683:2018                                                                                            | All                      | Pass        |
| 12       | 9.4        | Mounting Test                                                                                                                                                                                                                                           | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 13       | 9.5        | Valves and Closures                                                                                                                                                                                                                                     | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 14       | 9.9        | Method of Operation                                                                                                                                                                                                                                     | Max. force required to operate the valve with full hand is 200N                                                              | One                      | 160N        |
| 15       | 9.10.1     | Safety Locking Devices                                                                                                                                                                                                                                  | Force required to remove safety locking device is 20N-100N                                                                   | Two                      | 55N & 60N   |
| 16       | 9.10.6     | Safety Locking Devices                                                                                                                                                                                                                                  | Tamper indicator shall break with force not more than 70N & other requirement as per IS 15683:2018                           | Two                      | 53N & 58N   |
| 17       | 10.1       | Color for body                                                                                                                                                                                                                                          | Shade No. 538(P.O. Red) of IS 5 and yellow band to be provided                                                               | All                      | Pass        |
| 18       | --         | Anticorrosive treatment & Painting                                                                                                                                                                                                                      | Phosphate treatment followed by Pure polyester Powder coating with DFT not less than 50μ.                                    | All                      | (65-90)μ    |
| 19       | 10.2.1     | Marking                                                                                                                                                                                                                                                 | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 20       | 10.2.2     | Operating Instructions                                                                                                                                                                                                                                  | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 21       | 10.2.3     | Code symbols                                                                                                                                                                                                                                            | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 22       | 10.3       | Inspection instruction                                                                                                                                                                                                                                  | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 23       | Type tests | 1)Resistance to Temp. changes<br>2)Impact test<br>3)Vibrations test<br>4)External Corrosion test 5)Internal Corrosion test 6)Intermittent discharge<br>7)Maximum Service Pressure<br>8)Crushing test<br>9)Pressure cycling<br>10) Fire performance test | As per IS 15683:2018                                                                                                         | As per Scheme of testing | Pass        |
| 24       | --         | Dimensions and Completeness                                                                                                                                                                                                                             | Diameter: 106±5mm, Height: 380mm Approx<br>Thickness: 1.6 mm Approx                                                          | All                      | Pass        |

**Remarks: This is to certify that the Lithium-Ion Stored Pressure Fire Extinguisher of capacity 2 Ltr meets and confirms to the requirements of IS 15683:2018.**



**Authorized Signatory**