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|-----------------------------------|--------------------------------------------------------------------|------------------|
| TC No.: CA2/RQ/025/25             | Model No.: KCARQ-2                                                 | Date: 24-08-2025 |
| Type and Capacity of Extinguisher | : KCARQ-2-Kanex Clean Agent HFC Based Fire Extinguisher Cap. 2 Kg. |                  |
| Batch Number                      | : KCARQ2 025/25                                                    |                  |
| Batch Quantity                    | : 101.00 Nos.                                                      |                  |
| Serial Numbers                    | : 02401 To 2500 And 2405A                                          |                  |
| Month of Manufacturing            | : Aug/25                                                           |                  |
| Date of Inspection                | : 24-08-2025                                                       |                  |

| Sr. Nos. | Cl. No.    | Tests and Inspection                                                                                                                                                                                                                                          | Requirements                                                                                                                 | Sampling                 | Observation |
|----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|
| 1        | 5.1.3      | Extinguishing Agent                                                                                                                                                                                                                                           | Clean agent (HFC 236fa) as per IS 15683:2018                                                                                 | One                      | Pass        |
| 2        | 5.3.2      | Filling tolerance                                                                                                                                                                                                                                             | +5% by Mass                                                                                                                  | 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:21B, hence Min. duration is 8 seconds. Sr. No. :02401                                             | One                      | 13.2 SEC.   |
| 5        | 7.2        | Bulk range of Discharge                                                                                                                                                                                                                                       | Approved fire rating is 1A:21B, hence Min. bulk range is 2 m. Sr. No. :02401                                                 | One                      | 2 Mtr.      |
| 6        | 3.8        | Percentage of Discharge                                                                                                                                                                                                                                       | Min 95%, Sr. No. :02401                                                                                                      | One                      | 96%         |
| 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. :02402 | One                      | 96%         |
| 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 for Body                                                                                                                                                                                                                                           | Burst pressure shall be 55 bar if break from body and shall be 80 bar if break from welding.<br>Sr. No. :02405A              | One                      | 156 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       | 9.8        | Hose Assemblies                                                                                                                                                                                                                                               | Length of hose is 370 mm and shall withstands a hydro pressure of 55 bar for at least 30 seconds.                            | One                      | 61 Bar      |
| 15       | 9.9        | Method of Operation                                                                                                                                                                                                                                           | Max. force required to operate the valve with full hand is 200N                                                              | One                      | 162 N       |
| 16       | 9.10.1     | Safety Locking Devices                                                                                                                                                                                                                                        | Force required to remove safety locking device is 20N-100N                                                                   | Two                      | 59 N & 64 N |
| 17       | 9.10.6     | Safety Locking Devices                                                                                                                                                                                                                                        | Tamper indicator shall break with force not more than 70N & other requirement as per IS 15683:2018                           | Two                      | 54 N & 59 N |
| 18       | 10.1       | Color for body                                                                                                                                                                                                                                                | Shade No. 538 (P.O. Red) of IS 5 and green band to be provided                                                               | All                      | Pass        |
| 19       | ---        | Anticorrosive treatment & Painting                                                                                                                                                                                                                            | Phosphate treatment followed by pure polyester Powder coating with DFT not less than 50μ.                                    | All                      | 81 μ        |
| 20       | 10.2.1     | Marking                                                                                                                                                                                                                                                       | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 21       | 10.2.2     | Operating Instructions                                                                                                                                                                                                                                        | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 22       | 10.2.3     | Code symbols                                                                                                                                                                                                                                                  | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 23       | 10.3       | Inspection instruction                                                                                                                                                                                                                                        | As per IS 15683:2018                                                                                                         | All                      | Pass        |
| 24       | Type tests | 1)Resistance to Temp. changes<br>2)Impact test<br>3)Vibrations test<br>4)External Corrosion test<br>5)Internal Corrosion test<br>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        |
| 25       | --         | Dimensions and Completeness                                                                                                                                                                                                                                   | Diameter:106±5, Height:410 Approx, Thickness:1.5mm Approx                                                                    | All                      | Pass        |

**Remarks: This is to certify that the Clean Agent type Fire Extinguishers of Capacity 2 kg. meets and confirms to the requirements of IS 15683:2018.**



**Authorized Signatory**