

|                                   |                                                                      |                  |
|-----------------------------------|----------------------------------------------------------------------|------------------|
| TC No.: C22.5/RQ/008/26           | Model No.: KFCRQ-22.5                                                | Date: 26-03-2026 |
| Type and Capacity of Extinguisher | : KFCRQ-22.5-Kanex CO2 High Pressure Fire Extinguisher Cap. 22.5 Kg. |                  |
| Batch Number                      | : KFCRQ22.5 008/26                                                   |                  |
| Batch Quantity                    | : 50.00 Nos.                                                         |                  |
| Serial Numbers                    | : 00351 To 400                                                       |                  |
| Month of Manufacturing            | : Mar/26                                                             |                  |
| Date of Inspection                | : 26-03-2026                                                         |                  |

| Sr. Nos. | Cl. No.        | Tests and Inspection                                                                                                                                                                   | Requirements                                                                                                                                                                                                               | Sampling                  | Observation                                            |
|----------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------|
| 1        | 3.5            | Service Pressure                                                                                                                                                                       | Shall be above 19 bar for high pressure extinguishers                                                                                                                                                                      | One                       | 60 bar                                                 |
| 2        | 5.1            | Extinguishing media                                                                                                                                                                    | As per IS 15222                                                                                                                                                                                                            | One                       | Pass                                                   |
| 3        | 5.3 & 5.4      | Capacity and fill density                                                                                                                                                              | 22.5 Kg (Tolerance +0, -5%) and fill density not exceed 0.667 kg/l                                                                                                                                                         | Each                      | Pass                                                   |
| 4        | 6.4.1(a) & (b) | Retention of charge                                                                                                                                                                    | As per IS 16018:2012                                                                                                                                                                                                       | Each                      | Pass                                                   |
| 5        | 6.5            | Intermittent discharge test                                                                                                                                                            | Conditioned cylinder at 27±5°C and 55±5°C for 18hrs and then operate it intermittently by opening and closing the valve at 5 Sec interval, not more than 10% content should remain in cylinder Test done on Sr. No.: 00351 | One from Every 7th batch  | 2% content remain for 8thbatch                         |
| 6        | 7              | Fire performance test                                                                                                                                                                  | Minimum rating for B class fire is 55B                                                                                                                                                                                     | Once in year              | 89B                                                    |
| 7        | 8.2            | High pressure cylinders                                                                                                                                                                | As per IS 16018:2012                                                                                                                                                                                                       | Each                      | Pass                                                   |
| 8        | 8.4.3          | Material                                                                                                                                                                               | As per IS 7285                                                                                                                                                                                                             | One                       | Pass                                                   |
| 9        | 8.6            | Minimum wall thickness                                                                                                                                                                 | Based on formula given in standard, minimum wall thickness for 232mm diameter is 5mm                                                                                                                                       | Each                      | Pass                                                   |
| 10       | 8.7            | Caps, valves and closures                                                                                                                                                              | As per IS 16018:2012 requirements                                                                                                                                                                                          | One                       | Pass                                                   |
| 11       | 8.8.1.1        | Safety devices                                                                                                                                                                         | As per national regulations                                                                                                                                                                                                | Two                       | Operating pressure of safety device is 210-220kgf/cm2  |
| 12       | 8.9.2.1        | Leakage test                                                                                                                                                                           | As per IS 16018:2012                                                                                                                                                                                                       | Each                      | Pass                                                   |
| 13       | 8.11.1         | Discharge assembly                                                                                                                                                                     | Length of hose Min.4 mtr for capacity more than 25kg and Min 1.5 mtr for capacity less than or equal to 25kg.                                                                                                              | Each                      | 5 mtr                                                  |
| 14       | 8.11.3         | Discharge assembly                                                                                                                                                                     | Burst Pressure of discharge hose shall not be less than 250kgf/cm2                                                                                                                                                         | Two from every 7th batch  | 438 and 438 kgf/cm2 burst pressure found for 8th batch |
| 15       | 8.13           | Requirements for the horn                                                                                                                                                              | As per IS 16018:2012                                                                                                                                                                                                       | One from every 10th batch | Pass                                                   |
| 16       | 8.14           | Method of Operation                                                                                                                                                                    | Force require to open discharge valve shall be maximum 120 N                                                                                                                                                               | One from every 10th batch | 80 N for 1st batch                                     |
| 17       | 8.15           | Safety locking device                                                                                                                                                                  | To release safety locking device,required force shall be in between 20N to 100N                                                                                                                                            | One from every 10th batch | 40 N for 1st batch                                     |
| 18       | 8.18           | Carriage assembly                                                                                                                                                                      | As per IS 16018:2012                                                                                                                                                                                                       | One                       | Pass                                                   |
| 19       | 9.1            | Colour                                                                                                                                                                                 | Colour shall be red                                                                                                                                                                                                        | All                       | P.O. Red as per IS 5                                   |
| 20       | 9.2            | Marking                                                                                                                                                                                | As per IS 16018:2012                                                                                                                                                                                                       | All                       | Pass                                                   |
| 21       | 9.3            | Operating Instruction                                                                                                                                                                  | As per IS 16018:2012                                                                                                                                                                                                       | All                       | Pass                                                   |
| 22       | TYPE TESTS     | 1) Performance Requirements<br>2) Resistance to Temp. Change<br>3) Resistance to corrosion<br>4) Fire Performance test<br>5) Maximum service pressure test<br>6) Pressure cycling test | As per IS 16018:2012                                                                                                                                                                                                       | As per Scheme of Testing  | Pass                                                   |
| 23       | --             | Dimension & Completeness                                                                                                                                                               | Diameter: 232±10mm , Height: 1155mm Approx.                                                                                                                                                                                | All                       | Pass                                                   |
| 24       | --             | Approvals                                                                                                                                                                              | PESO & BIS                                                                                                                                                                                                                 | All                       | Pass                                                   |

**Remarks:** This is to certify that the CO2 Type Fire Extinguisher (Trolley mounted) of Capacity 22.5 kg. meets the requirements of IS 16018:2012 and confirms to IS 16018:2012.



**Authorized Signatory**