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|-----------------------------------|------------------------------------------------------------------------|------------------|
| TC No.: F45/RQ/019/26             | Model No.: KFMQR-45                                                    | Date: 07-04-2026 |
| Type and Capacity of Extinguisher | : KFMQR-45-Kanex M Foam Trolley Mounted Fire Extinguisher Cap. 45 Ltr. |                  |
| Batch Number                      | : KFMQR45 019/26                                                       |                  |
| Batch Quantity                    | : 50.00 Nos.                                                           |                  |
| Serial Numbers                    | : 00901 To 950                                                         |                  |
| Month of Manufacturing            | : Apr/26                                                               |                  |
| Date of Inspection                | : 07-04-2026                                                           |                  |

| Sr. Nos. | Cl. No.           | Tests and Inspection                                                                                                                                                                   | Requirements                                                                                                                                                                                                                                                   | Sampling                  | Observation                                                  |
|----------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------|
| 1        | 5.1               | Extinguishing media                                                                                                                                                                    | AFFF Foam Confirming to IS 4989 (6% Concentration)                                                                                                                                                                                                             | One                       | Pass                                                         |
| 2        | 5.4               | Capacity                                                                                                                                                                               | 45 ltr (Tolerance $\pm 5\%$ ).                                                                                                                                                                                                                                 | Each                      | Pass                                                         |
| 3        | 6.4.1(a) & (b)    | Retention of charge                                                                                                                                                                    | As per IS 16018:2012                                                                                                                                                                                                                                           | Each                      | Pass                                                         |
| 4        | 6.5               | Intermittent discharge test                                                                                                                                                            | Conditioned cylinder at $27 \pm 5^\circ\text{C}$ and $55 \pm 5^\circ\text{C}$ 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. :00701 | One from Every 7th batch  | 1% content remain for 15th batch                             |
| 5        | 7                 | Fire performance test                                                                                                                                                                  | Minimum rating for A class is 4A and for B class is 144B                                                                                                                                                                                                       | Once in year              | 20A:233B                                                     |
| 6        | 8.1.3 to 8.1.7    | General requirements                                                                                                                                                                   | As per IS 16018:2012                                                                                                                                                                                                                                           | Each                      | Pass                                                         |
| 7        | 8.3.1 and 8.9.1.1 | Burst Test                                                                                                                                                                             | Mech. Failure shall not occur upto 70kgf/cm <sup>2</sup> and no any break from weld at 80kgf/cm <sup>2</sup> . Test done on Sr. No. :505A                                                                                                                      | One ( from every 500 nos) | 92kgf/cm <sup>2</sup> for 11th batch                         |
| 8        | 8.3.2 & 8.9.1.1   | Deformation test                                                                                                                                                                       | Permanant expansion shall not be more than 10% of total expansion while tested at 35kgf/cm <sup>2</sup> for 30 sec. Test done on Sr. No. :505A                                                                                                                 | One ( from every 500 nos) | 1% deformation found for 11th batch                          |
| 9        | 8.9.1.2           | Hydraulic test of body                                                                                                                                                                 | Cylinders shall be subjected to the test pressure (i.e.35kgf/cm <sup>2</sup> ) for at least 2.5 Min.                                                                                                                                                           | Each                      | Pass                                                         |
| 10       | 8.4.1             | Material : Low carbon steel                                                                                                                                                            | As per IS 16018:2012                                                                                                                                                                                                                                           | One per batch of 500      | Pass                                                         |
| 11       | 8.6               | Minimum wall thickness                                                                                                                                                                 | Based on formula given in standard, minimum wall thickness for 300mm diameter is 2.6mm and for 400mm diameter is 3.5mm                                                                                                                                         | Each                      | Pass                                                         |
| 12       | 8.7               | Caps, valves and closures                                                                                                                                                              | As per IS 16018:2012 requirements                                                                                                                                                                                                                              | One                       | Pass                                                         |
| 13       | 8.8.1.2           | Safety devices                                                                                                                                                                         | Operating pressure of safety device shall not exceed 35kgf/cm <sup>2</sup> nor be less than 17kgf/cm <sup>2</sup>                                                                                                                                              | Two                       | Operating pressure of safety device is 20kgf/cm <sup>2</sup> |
| 14       | 8.9.2.2           | Loss of Pressure                                                                                                                                                                       | As per IS 16018:2012                                                                                                                                                                                                                                           | One                       | Pass                                                         |
| 15       | 8.11.1            | Discharge assembly                                                                                                                                                                     | Length of hose Min.4 mtr for capacity more than 25kg/25ltr and Min 1.5 mtr for capacity less than or equal to 25kg/25ltr.                                                                                                                                      | Each                      | 4 mtr                                                        |
| 16       | 8.11.3            | Discharge assembly                                                                                                                                                                     | Burst Pressure of discharge hose shall not be less than 50kgf/cm <sup>2</sup>                                                                                                                                                                                  | Two from every 7th batch  | 54kgf/cm <sup>2</sup> burst pressure found for 15th batch    |
| 17       | 8.14              | Method of Operation                                                                                                                                                                    | Energy require to operate the cap plunger shall be maximum 3 J                                                                                                                                                                                                 | One from every 10th batch | 1 J for 11th batch                                           |
| 18       | 8.15              | Safety locking device                                                                                                                                                                  | To release safety locking device,required force shall be in between 20N to 100N                                                                                                                                                                                | One from every 10th batch | 64 N for 11th batch                                          |
| 19       | 8.18              | Carriage assembly                                                                                                                                                                      | As per IS 16018:2012                                                                                                                                                                                                                                           | One                       | Pass                                                         |
| 20       | 9.1               | Colour                                                                                                                                                                                 | Colour shall be red                                                                                                                                                                                                                                            | All                       | P.O.Red as per IS 5                                          |
| 21       | --                | Anticorrosive treatment & Painting                                                                                                                                                     | Phosphate treatment followed by Pure polyester Powder coating with DFT not less than 50 $\mu$ .                                                                                                                                                                | All                       | (65-90) $\mu$                                                |
| 22       | 9.2               | Marking                                                                                                                                                                                | As per IS 16018:2012                                                                                                                                                                                                                                           | All                       | Pass                                                         |
| 23       | 9.3               | Operating Instruction                                                                                                                                                                  | As per IS 16018:2012                                                                                                                                                                                                                                           | All                       | Pass                                                         |
| 24       | 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                                                         |
| 25       | --                | Dimesions & Completeness                                                                                                                                                               | Diameter: 300 $\pm$ 10 mm, Height: 1000 mm Approx                                                                                                                                                                                                              | All                       | Pass                                                         |

**Remarks: This is to certify that the Mechanical Foam Type Fire Extinguisher (Trolley mounted) of Capacity 45 Ltr. meets the requirements of IS 16018:2012 and confirms to IS 16018:2012.**



**Authorized Signatory**