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| **Tender Item** | **Group / Activity Type[Providing, Laying, Erection, Testing, Commissioning]** | **Material Name (Technical)** | **Detailed Technical Specifications** | **Unit** | **Quantity** |
| **Heavy-Duty MS Piping (Fire/Utility Lines)** | **‘C’ Class MS Pipe**[Providing, Laying, Welding, Fixing, Painting] | **25 mm dia ‘C’ Class MS Pipe** | • **Standards:** IS 3589 / IS 1239 (heavy-duty ‘C’ class)• **Installation:** Wall/ceiling or hanging arrangement, proper welded joints (for sprinklers)• **Painting:** Two or more coats of synthetic enamel in required shade• **Testing:** Hydro/pneumatic test as per code | m (meter) | As per site measure |
| **32 mm dia ‘C’ Class MS Pipe** | • **Same specs as above** (IS 3589/IS 1239, ‘C’ class, welded joints, painting, testing) | m (meter) | As per site measure |  |  |
| **65 mm dia ‘C’ Class MS Pipe** | • **Same specs as above** | m (meter) | As per site measure |  |  |
| **80 mm dia ‘C’ Class MS Pipe** | • **Same specs as above** | m (meter) | As per site measure |  |  |
| **100 mm dia ‘C’ Class MS Pipe** | • **Same specs as above** | m (meter) | As per site measure |  |  |
| **150 mm dia ‘C’ Class MS Pipe** | • **Same specs as above** | m (meter) | As per site measure |  |  |
| **Fittings & Ancillaries**[Providing, Welding, Fixing] | **MS Coupler – 25/32/65/80/100/150 mm** | • **Material:** ‘C’ Class MS (same standard)• **Joint:** Butt weld or flange (as specified)• **Finish/Paint:** Same as pipe (2+ coats synthetic enamel) | Nos. | As required |  |
| **MS Elbow – 25/32/65/80/100/150 mm** | • **Angle:** 90° or 45° (as required)• **Material:** ‘C’ Class MS (IS 3589/1239)• **Joint:** Welded / Flanged | Nos. | As required |  |  |
| **MS Tee – 25/32/65/80/100/150 mm** | • **Type:** Equal or Reducing (as required)• **Material:** ‘C’ Class MS• **Standard:** IS 3589/1239• **Joint:** Welded | Nos. | As required |  |  |
| **MS Flange – 25/32/65/80/100/150 mm** | • **Type:** Plate/Slip-on flange• **Drilling:** As per ANSI B16.5 or relevant standard• **Material:** ‘C’ Class MS (heavy duty)• **Coating:** Painted to match pipeline | Nos. | As required |  |  |
| **Tapers/Reducers – All sizes** | • **Type:** Concentric or Eccentric (as required)• **Material:** ‘C’ Class MS• **Joint:** Welded | Nos. | As required |  |  |
| **Nuts, Bolts, Gaskets** | • **Material:** GI/HSFG bolts, washers, rubber/CAF gaskets (pressure-rated)• **Usage:** Flanged joints, couplers, tees, etc. | set | As required |  |  |
| **Clamp/Support Frames** | • **Type:** Fabricated MS clamp or bracket• **Coating:** Painted or galvanized• **Fixing:** Secure to wall/ceiling/hanger arrangement | Nos. | As required |  |  |

**📌 Additional Notes & Scope**

1. **Welding & Jointing**

All welding (butt, flange connections) and any necessary finishing at joints are included. For sprinkler lines, ensure welds conform to relevant fire code requirements.

2. **Painting**

All pipes, fittings, and supports receive at least two coats of synthetic enamel paint in the required shade.

3. **Testing & Commissioning**

Hydro/pneumatic testing as per standard procedures. Any leaks or defects to be rectified before commissioning.

4. **Measurement & Payment**

• **Pipes:** Measured in running meters, size-wise, to nearest 0.1 m.

• **Fittings & Supports:** Counted “as required” or specified by actual site usage.

• Final billing reflects the actual installed and tested quantity per diameter.

5. **Labour & Handling**

All labour for transportation, cutting, fabrication, welding, scaffold arrangements, and site cleaning is included within these items unless specified otherwise in the contract.