Internal Memo no. 912-165– construction Date: 28-10-2023

Subject: Firefighting Down comers - For housing projects

Keywords: Firefighting, Downcomer, housing project

Purchase and installation of Fire fighting down-comers for housing project has been standardized. The details are given herein.

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| Sl. No. | Description of item | Details of use | SKU no. | Appx. Cost in Rs. |
|  | MS Round Pipe B class-100Dx6000Lmm | Main line from OHT tank, used for down comer and tapping shall be taken from this line for sprinklers in cellar floor. | STEL2516-Steel-MS Round pipe-B Class-100DX6000Lmm-Kgs | 78/-per kg |
|  | MS Round Pipe-B Class-80DX6000Lmm | Used for sprinkler header lines in cellar floor. | STEL3859-Steel-MS Round Pipe-B Class-80DX6000Lmm-Kgs | 78/-per kg |
|  | MS Round Pipe B class-65x6000Lmm | Used for sprinkler header lines in cellar floor. | STEL7524-Steel-MS Round Pipe B class-65x6000Lmm-Kgs | 78/-per kg |
|  | MS Round Pipe B class-50x6000Lmm | Used for sprinkler header lines in cellar floor. | STEL5211-Steel-MS Round Pipe B class-50x6000Lmm-Kgs | 78/-per kg |
|  | MS Round Pipe B class-40Dx6000Lmm | Used for sprinkler lines in cellar floor. | STEL4596-Steel-MS Round Pipe B class-40Dx6000Lmm-Kgs | 78/-per kg |
|  | MS Round Pipe B class-32Dx6000Lmm | Used for sprinkler lines in cellar floor. | STEL5638-Steel-MS Round Pipe B class-32Dx6000Lmm-Kgs | 78/-per kg |
|  | MS Round Pipe-B Class-25DX6000Lmm | Used for sprinkler lines in cellar floor. | STEL2801-Steel-MS Round Pipe-B Class-25DX6000Lmm-Kgs | 78/-per kg |
|  | MS L Angle-40X40X6Tmm | For pipeline supports and stands for hose reel box | STEL7401-Steel-MS L Angle-40X40X6Tmm-Kgs | 68/-per kg |
|  | MS L Angle-50X50X6Tmm | For pipeline supports and stands for hose reel box | STEL6449-Steel-MS L Angle-50X50X6Tmm-Kgs | 68/-per kg |
|  | RRL type A Hose pipe-63Dmm | Used when the hoses are needed to pass through places where there is high radiant heat. | FIRE9515-Fire & Safety-RRL type A Hose pipe-63Dmm-Nos | 3,776/- |
| 11 | SS Branch pipe-63Dmm | Used for a range of wash down and jet spray applications. | IRE7F441-Fire & Safety-SS Branch pipe-63Dmm-Nos | 1,593/- |
| 12 | Hose Reel Drum-30mtrs | Used to keep the hose pipe | FIRE5726-Fire & Safety-Hose Reel Drum-30mtrs-Nos | 5,900/- |
| 13 | Fire Hose Cabinet- 900X1500X150mm 18SWG | Used to store the firefighting equipment like fire hoses, fire extinguishers, fire hoses reels, branch pipes. | FIRE7717-Fire& Safety-Fire Hose Cabinet- 900X1500X150mm 18SWG-Nos | 7,670/- |
| 14 | Hose Box-Single Door | Used to store the firefighting equipment like fire hoses, fire extinguishers, fire hoses reels, branch pipes. | FIRE6664-Fire & Safety-Hose Box-Single Door-Nos | 1,416/- |
| 15 | Hose Box-Double Door | Used to store the firefighting equipment like fire hoses, fire extinguishers, fire hoses reels, branch pipes | FIRE1291-Fire & Safety-Hose Box-Double Door-Nos | 2,596/- |
| 15 | Fire Brigade Inlet-2way-100mm | Used to pump water through built-in-firefighting system | FIRE4281-Fire & Safety-Fire Brigade Inlet-2way-100mm-Nos | 6,490/- |
| 16 | Fire Brigade Inlet-4way-150mm | It enables firefighters to pump in water into the dry riser or the wet riser or the sprinkler system piping using external water sources like a hydrant. | FIRE3271-Fire & Safety-Fire Brigade Inlet-4way-150mm-Nos | 8,850/- |
| 17 | MS Flange-E table-80DX4 Holes | Used to connect the pipes or fittings together to perform the different functions. | STEL3746-Steel-MS MS Flange-E table-80DX4 Holes-Nos | 212/- |
| 18 | MS Flange-E table-100mm | Used to connect the pipes or fittings together to perform the different functions | FIRE8108-Fire & Safety-MS Flange-E table-100mm-Nos | 254/- |
| 19 | Enamel Black-Asian Apcolite-1lietr can | Serves as a protective Armour around the painted surface. | PAIN5379-Paints-Enamel Black-Asian Apcolite-1lietr can | 294/-per 1 liter can |
| 20 | Forged Brass Ball valve-25mm | Used for drain line control, pressure gauge and pressure switch control | FIRE3382-Fire & Safety-Forged Brass Ball valve-25mm-Nos | 748/- |
| 21 | SS Hydrant Valve-63Dmm | Provide the means to draw water for firefighting from the fire water piping network | FIRE5317-Fire & Safety-SS Hydrant Valve-63Dmm-Nos | 4,602/- |
| 22 | Butterfly Valve-50mm | Serve as control valves that turn on or shut off the flow of water to the pipes serving fire sprinkler or standpipe systems | FIRE9710-Fire & Safety-Butterfly Valve-50mm-Nos | 1,794/- |
| 23 | Butterfly Valve PN16-80Dmm | Serve as control valves that turn on or shut off the flow of water to the pipes serving fire sprinkler or standpipe system | FIRE2343-Fire & Safety-Butterfly Valve PN16-80Dmm-Nos | 3,876/- |
| 24 | Butterfly Valve-100mm | Serve as control valves that turn on or shut off the flow of water to the pipes serving fire sprinkler or standpipe system | FIRE1351-Fire & Safety-Butterfly Valve-100mm-Nos | 3,033/- |
| 25 | Non return valve-100mm | Used to prevent the liquid or gas from flowing back upstream of the valve | PLUM6888-Plumbing-Non return valve-100mm-Nos | 3,059/- |
| 26 | Pressure Guage-0 to 10.5Kgs | Used to measure the pressure of liquid | FIRE6575-Fire & Safety-Pressure Guage-0 to 10.5Kgs-Nos | 1,475/- |
| 27 | Pressure switch | Used to control the activation and deactivation of pumps in fluid systems when pressure thresholds are reached | FIRE6238-Fire & Safety-Pressure switch-Nos | 1,062/- |
| 28 | Copper wire-3CoreX2.5Sqmm-Mtrs | Power supply for booster pump | ELEC8573-Electrical-Copper wire-3CoreX2.5Sqmm-Mtrs | 87/-per mtr |
| 29 | Pressure Booster pump-Kirloskar KDS 1348-12.5hp | A device used to increase low water pressure and flow | FIRE1752-Fire & Safety-Pressure Booster pump-Kirloskar KDS 1348-12.5hp-Nos | 56,746/- |
| 30 | Booster pump panel-12.5Hp | Essential component for maintaining a reliable water pressure system | FIRE5063-Fire & Safety-Booster pump panel-12.5Hp-Nos | 13,570/- |
| 31 | Air Release Valve-20mms | Used to ensure that any entrained air in the water system is automatically released in order to maximize the system performance | HVAC2886-HVAC-Air Release Valve-20mm-Nos | 867/- |
| 32 | GI Base Saddle-25m | Used to support or hold the power supply cable for booster pump. | ELEC8660-Electrical-GI Base Saddle-25m-Boxes | 354/-per box(72pcs per box) |
| 33 | Firefighting-Fire sprinklers | Used to prevent fire growth and spread by releasing water through a series of sprinkler heads connected to a distribution piping system | FIRE6625-Fire & Safety-Firefighting-Fire sprinklers-Nos | 207/- |
| 34 | Dry type Fire extinguisher-6 Kgs | Used in variety of situations to stop the fire, class A fires: fires that involve flammable solids. Class B fires: fires that involves flammable liquids | FIRE2803-Fire & Safety-Dry type Fire extinguisher-6 Kgs | 1,180/- |
| 35 | Wet type Fire extinguisher-9 Ltrs | Used to tackle fat and grease fires in kitchens (class F) | FIRE2009-Fire & Safety-Wet type Fire extinguisher-9 Ltrs | 1,357/- |
| 36 | fire Buckets + Stand | This type of fire extinguisher to stop fire. Used in electrical rooms. | FIRE2909-Fire & Safety-4 Buckets +Stand-Nos | 1,357/- |
| 37 | MS Flat-6mtrs-50x6mm | For fabrication work | STEL2879-Steel-MS Flat-6mtrs-150x50x10Tmm-Kgs | 74/-per kg |
| 38 | MS Threaded Nipple-150LX80Dmm | Used for connecting two other fittings | STEL4979-Steel-MS Threaded Nipple-150LX80Dmm-Nos | 177/-each |
| 39 | MS Threaded Nipple-65X150mm | Used for connecting two other fittings | STEL1468-Steel-MS Threaded Nipple-65X150mm-Nos | 118/-each |
| 40 | GI-Nipple-50X150mm | Used for connecting two other fittings | PLUM9945-Plumbing-GI-Nipple-50X150mm-Nos | 109/-each |
| 41 | MS Nipple-12.7X250mm | Used for connecting two other fittings | STEL8896-Steel-MS Nipple-12.7X250mm-Nos | 53/-each |
| 42 | MS Coupling-15mm | Used to join two pipes or tubes together | STEL6309-Steel-MS Coupling-15mm-Nos | 37/-each |
| 43 | MS Coupling-20mm | Used to join two pipes or tubes together | STEL6751-Steel-MS Coupling-20mm-Nos | 58/-each |
| 44 | GI Hose clamp-heavy duty-20Dmm- | Used to attach and seal a hose onto a fitting | HARD4627-Hardware-GI Hose clamp-heavy duty-20Dmm-Nos | 18/- |
| 45 | GI U Clamp+Nut+Washer-100x8mm- | To support down comer lines | HARD2902-Hardware-GI U Clamp+Nut+Washer-100x8mm-Nos | 30/-each |
| 46 | Anchor bolt-Pin Type-10x62.50mm- | Used for anchoring of sprinkler pipelines for pipes of dia 50 to 80mm | HARD2439-Hardware-Anchor bolt-Pin Type-10x62.50mm-Nos | 11/-each |
| 47 | Enamel-Post Office Red-4Ltrs-Can | Serves as a protective Armour around the painted surface. | PAIN5030-Paints-Enamel-Post Office Red-4Ltrs-Can | 1225/-per 4ltrs can |
| 48 | Turpentine oil-1 ltr can | Mixed in Enamel & Red oxide for work ability | PAIN8788-Paints-Turpentine oil-1 ltr can | 135/- per 1 liter can |
| 49 | Hooter | Typically installed at fire escape routes that produces loud noise with a frequency that reaches a large area to alert people regarding any hazardous conditions. Typically used in housing project. | FIRE2644-Fire& Safety -Hooter Non-addressable-Nos | 283/- |
| 50 | Manual call point | Typically installed at fire escape routes and it allows occupants to manually activate the fire alarm system in case of emergency. Typically used in housing project | FIRE7360-Fire& Safety -Manual call point -Non- addressable-Nos | 271/- |
| 51 | Smoke detector | To detect smoke or heat and designed to work with conventional fire alarm panel. Typically used in housing project | FIRE7855-Fire& Safety -Smoke detector -Non-addressable-Nos | 531/- |
| 52 | Red Oxide Primer-Asian-1Ltr-Can | Serves as a protective Armour around the painted surface. | PAIN8548-Paints-Red Oxide Primer-Asian-1Ltr-Can | 225/-per 1 liter |
| 53 | Anchor bolt-Pin Type-8x50mm | Used for anchoring of sprinkler pipelines for pipes of dia 25 to 40mm | HARD2287-Hardware-Anchor bolt - Pin Type-8x50mm-Nos | 8/-each |
| 54 | Anchor bolt-Pin Type-12x62.50mm | Used for anchoring of sprinkler pipelines for pipes of dia 100 mm | HARD4639-Hardware-Anchor bolt-Pin Type-12x62.50mm-Nos | 14/-each |
| 55 | MS ISMC 75X6000Lmm | For supporting of fire down comer lines in fire shafts. | STEL5337-Steel-MS ISMC-75X6000Lmm-Kgs | 71/-per kg |
| 55 | MS ISMC-100X6000Lmm | For supporting of fire down comer lines in fire shafts. | STEL9892-Steel-MS ISMC-100X6000Lmm-Kgs | 71/-per kg |

Notes:

1. conventional fire alarm system is followed all housing projects and material ordered shall be of conventional/Non-addressable fire alarm
2. Addressable fire alarm system is followed in Lab space projects and it is installed in common areas like lift lobby and central lobby areas. So accordingly addressable type of material should be ordered.
3. Same FRLS cable are mentioned above can be used for both fire alarm systems, cable is erected using ‘P’ type clamps using above fishers and screws and there is no requirement of PVC/Metal conduits for running the cable.

Soham Modi