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## METHOD STATEMENT FOR INSTALLATION OF CABLE TRAYS & LADDERS


REVISION HISTORY	ISSUE DATE	DESCRIPTION	REVIEW / STATUS

PREPARED BY:	REVIEWED BY:	APPROVED BY:
QA QC ENGINEER	MAINTENANCE MANAGER	DEP. HEAD

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## 1.0. Scope

- 1.1 This method statement details the method of installation of cable trays and ladders.

## 2.0. Material

- 2.1. Cable trays ladders and accessories shall be as per the approved material submittal.

## 3.0. Applicable Location

- 2.2. Electrical closet, ELV closet, and Mechanical rooms.


## 4.0. Method

### 2.3. Storage

- 2.3.1. All materials received at the site shall be inspected and ensured that the materials are as per the approved material submittal.
- 2.3.2. Any discrepancies, damages, etc. shall be notified and reported for future action.
- 2.3.3. Material found not suitable for the project is removed from the site immediately.
- 2.3.4. Cable trays and ladders are stored horizontally on flat surfaces with timber support at each meter and covered to protect from moisture and direct sunlight.

## 5.0. Installation

- 5.1. After the civil clearance to proceed with MEP installations, ensure the area is clean and ready to start the works.
- 5.2. Ensure all the relevant current / approved shop drawings are available with the installation team.
- 5.3. The required quantity of standard-length trays ladders and accessories are shifted from site stores to the workplace with the help of cranes and wheelbarrows, cleaning the material for dust from storage and transportation.
- 5.4. Mark the trays and ladders routes as per the approved shop drawing, and ensure these are of horizontal and vertical runs only.
- 5.5. Coordinate the routes, and levels and ensure there are no clashes with other services.
- 5.6. Maintain enough clearance for cable pulling and any access for future maintenance.

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- 5.7. Mark the support, and fix the supports with appropriate metal plugs, threaded rods, and nuts (or) 'L' angles/Slotted 'C' channels and nuts. A maximum of 1.2 meters. Distance is maintained between the supports to avoid the sagging of trays and ladders. Provide adequate supports at 150mm for bends, branches, and offsets.
- 5.8. Cut the standard length of the tray/ladder to the required length with appropriate cutting tools and fix holes with drilling machines. And fixed with the necessary accessories. Use mushroom head screws on the cable route to avoid the cable insulation damage during pulling.
- 5.9. All the fittings shall be from the manufacturer.
- 5.10. Expansion provision shall be provided at all the building expansion joints.
- 5.11. The manufacturer's instructions for installation shall be followed.
- 5.12. Approved fire sealant shall be provided wherever the installation crosses the fire-rated walls.
- 5.13. Sleeves shall be provided at all the wall crossings.
- 5.14. Copper earth links shall be installed at every joints to maintain continuity throughout the installation
- 5.15. Ensure the tray/ladder installations are neat and in a straight line for a good aesthetic look. Trim the extra projected supports.
- 5.16. All sharp edges and burrs shall be cleaned for pulling of cables.
- 5.17. Treat the cut and drilled part with zinc-rich paint immediately after cutting and before installation
- 5.18. Provide identification labels as specified to identify the service.
- 5.19. Inspection shall be offered for QC verification.
- 5.20. All the installed cable trays are to be protected from damage.

## 6.0. Records

- 6.1. Inspection request duly signed off by Consultant.
- 6.2. Specification [Section Reference Number here].
- 6.3. Approved Drawings.

## 7.0. Attachment

- 7.1. Inspection Check List for Testing and Commissioning of Bus Duct System
- 7.2. Risk Assessment
- 7.3. Checklist