

**OMAN WASTEWATER
SERVICES COMPANY S.A.O.C**



**الشركة العمانية
لخدمات الصرف الصحي ش.م.ع.م**

OMAN WASTEWATER SERVICE COMPANY

ELECTRICAL STANDARD SPECIFICATION

SECTION 15

TELEPHONE INSTALLATIONS

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1-0 SCOPE

This Specification defines the requirements for telephone installations, to be installed within Oman Wastewater Services Company projects.

2-0 STANDARDS SPECIFICATIONS

The following standards shall apply:

- BS 13631 3A plugs, socket outlets, adapters and connection units
- Omantel Regulations

3-0 PRODUCTS

3-1 General

Telephone cabling and equipment supply and installation shall be carried out by an approved contractor specializing in telephone installations.

All telephone related installations carried out by the Contractor shall conform to the OmanTel standard specifications and regulations together with this specification and the Project Drawings.

The Contractor shall supply and install cable ways, empty conduits with draw wires and/or trunking, telephone points and outlets, PVC ducts, telephone junction boxes, and manholes.

3-2 Telephone Outlets

The Contractor shall supply and install telephone points and the associated mains power outlets which shall conform to BS 1363.

The telephone outlets shall be jack type and from the same manufacturer, and finish as for the lighting and general power outlets, unless specified otherwise.

Telephone outlets shall be of the type approved by OmanTel.

4-0 INSTALLATION

4-1 Incoming Line/Site Services

The Contractor shall supply and install the incoming line underground through Omantel approved PVC-u pipe ducts with draw wires, together with the manholes/draw pits.

Standard Omantel type manhole and manhole covers shall be utilized, appropriate to the manhole location.

External ducts shall be installed in an 800 mm deep trench on 200 mm of dune sand covered with 200 mm of dune sand and completed with selected fitting materials.

4-2 Conduits and Trunking

The Contractor shall if required by the Project Specification or on the Project Drawings, allow for the supply and installation of an empty conduit system complete with draw wires and/or a trunking system between the outlet points and the telephone equipment area.

Conduit installations shall be concealed within the building fabric and/or concealed in suspended ceiling voids.

Conduit and trunking installations shall conform to the requirements of the Specifications and OmanTel requirements.

Unless otherwise specified, the minimum size of the conduit installed shall be 25 mm diameter and telephone underground duct 90 mm diameter.

The Contractor shall be responsible for liaison with the specialist telephone installer and/or Omantel engineers to ensure that:

- (a) The proposed conduits and trunking are adequate to accommodate cables
- (b) The specialist installer is provided with the programme requirements and that his work is carried out in accordance with the Contractor's main programme.

4-3 Telephone Outlets

Outlets shall be installed at locations indicated on the drawings and at the same heights as the general power socket outlets, unless specified otherwise.