

with a 100 mm thick layer of sand, measured from the top of the largest cable and compacted. Cable tiles, manufactured from concrete B25, or from plastic as approved by the Engineer and ADDC, shall then be placed on top of the sand and the remainder of the trench backfilled as specified under civil works. The warning tape mentioning "600 / 1000 volts electrical cables" shall be placed 30 cm from the final ground level. Backfilling works shall only commence after the Engineer has inspected the cables and has given his written approval for back fill.

- D. Where in accordance with the regulations of the Water and Electricity Authority cable-route-markers are required, the Contractor shall carry out such work. The dimensions, labelling and construction of cable - route -markers shall be as required by the ADDC.

1.3.31.10 Cable Trays

- A. The Contractor shall supply and install all cable trays. The drawings to be submitted by the Contractor for the Engineer's approval shall include separate cable tray drawings showing the their routing, design and method of installation.
- B. Trays shall be heavy duty perforated sheet metal type and/or ladder rack type confirming to requirements as specified in BS 7671 , NFPA 70 national electrical Code, USA or equivalent standard manufactured from heavy duty galvanized mild steel with approved fixings. The design of the tray assemblies shall allow movement under thermal conditions without detrimental affecting the entire installations.
- C. Bends, tees and junction fittings shall be of standard design and manufacture having an inside radius of not less than 300 mm. Where large size cables are to be installed this radius shall be sufficient to fully accommodate the minimum cable radius required.
- D. Cables shall be saddled or cleated to the cable tray by insulated straps in position as they are installed along the route.
- E. Particular care shall be taken on vertically rising tray work, and adequate cable fixings shall be supplied to ensure even security and distribution of load.
- F. Cable trays and ladders shall be continuous earthed, flexible earthing strips shall be used at the points where sections of cable tray are joint together