

MCC TECHNIQUE SDN. BHD.	Electrical Method Statement for Installation of LV cables for Street Lighting	Issue No: 1	Effective Date: 01/08/17
		Rev No: 0	Document Ref: MS-E014

## 1.0 OBEJECTIVE

This purpose of this method statement is to set guideline and methodology to be followed while performing the installation of LV cables for Street lighting works.

## 2.0 SCOPE OF WORKS

Method of installation is in accordance to the latest IEC, IEE, MS, BS and local authority standards.

## 3.0 REFERENCES

- a. IEC 62305 Part 1 to 3
- b. BS 7671, Regulation for Electrical Installation

## 4.0 HANDLING AND STORAGE

- a. All cable drums will be delivered and stored at approved & designated area.
- b. Cable ends must be sealed, secured and protected.
- c. Cables must be identifiable at all times.

## 5.0 WORK METHODOLOGY

- a. Determine the cable routing following approved construction drawing for street lighting.
- b. To excavate the cable trench until a 600mm depth below ground level or 100mm below bottom of drain.
- c. To lay 50mm sand in the trench to form bedding.
- d. To lay cable on sand bedding. For road crossings 4" G.I. pipe to be used for protection.
- e. To lay 150mm of sand on top of the cable/pipe and cover with PVC slab.
- f. To backfill with earth soil and completed with compaction.

## 6.0 REINSTATEMENT

### 6.1 General

- All work sites shall be leveled and left clean and tidy. Debris, trees, stumps and excess soil from the excavation shall be removed from site or will be stored at client's designated areas

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## 6.2 Compaction

- Spoil or other approved filling material shall be carefully placed in the trench. Stones, rocks and paving material shall be removed. The backfilling shall be carried out to avoid future subsidence.
- The backfilled material will be compacted with a 1-ton compactor.

## 6.3 Leveling

- The surface shall be left in such a condition as not to constitute a hazard and shall be the same as the original unexcavated land.

## 7.0 INSPECTIONS

- In-progress inspections to be conducted before backfilling to verify depth of cable installation
- Compaction will be inspected and documented with request for inspection form
- All testing and inspections will be documented with request for inspection form, attached progress pictures and test reports.

## 8.0 HEALTH, SAFETY, SECURITY AND ENVIRONMENT

- All installation works will be carried-out in accordance with Project Safety & Environmental Plan, client's Safety Procedures and statutory regulations.
- All necessary personal protective equipment will be provided and worn.
- All the tools and equipments used at site must be compliance to safety requirement.
- The site of all work activities will be kept in clean and tidy manner.
- Safety personnel will closely supervise and checked the safety of the construction area. Safety measure will be intensified when the risk is higher during period of work.

## 9.0 REFERENCES

- MS ISO 9001: 2015 Element 7.1.6
- Contract specs
- Inspection Checklist for Backfilling & Compaction