



DELTA SAMA JAYA SDN. BHD. (DSSB)

(Company No. 500276-W)

(Registered with Ministry of Finance, Tenaga Nasional Berhad (TNB), CIDB, KTMB, Telekom (TM), etc.)



Prevention of Cables and Pipes Damage

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TO INFORM, EDUCATE AND ASSIST CONTRACTORS
IN AVOIDING THE HIGH COST OF CABLES AND PIPES DAMAGE.

Introduction

A major contributing to good reliability and quality is the fully underground cable and piping system. Although such a system is protected from negative environmental effects, cables and pipes can be damaged as a result of earthworks.

Cables and pipes damage can affect consumers in all industries that use electricity or gas. Furthermore, a momentary outage can cause equipment and product to be damaged and also resulting in downtime and affected production and process lines. Life can also be endangered.

We are committed to providing a reliable and quality cables and pipes protection system. We value our contractors who carry out earthworks - to inform, educate and assist them in preventing underground utilities cables damage.

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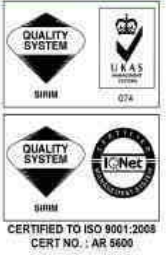
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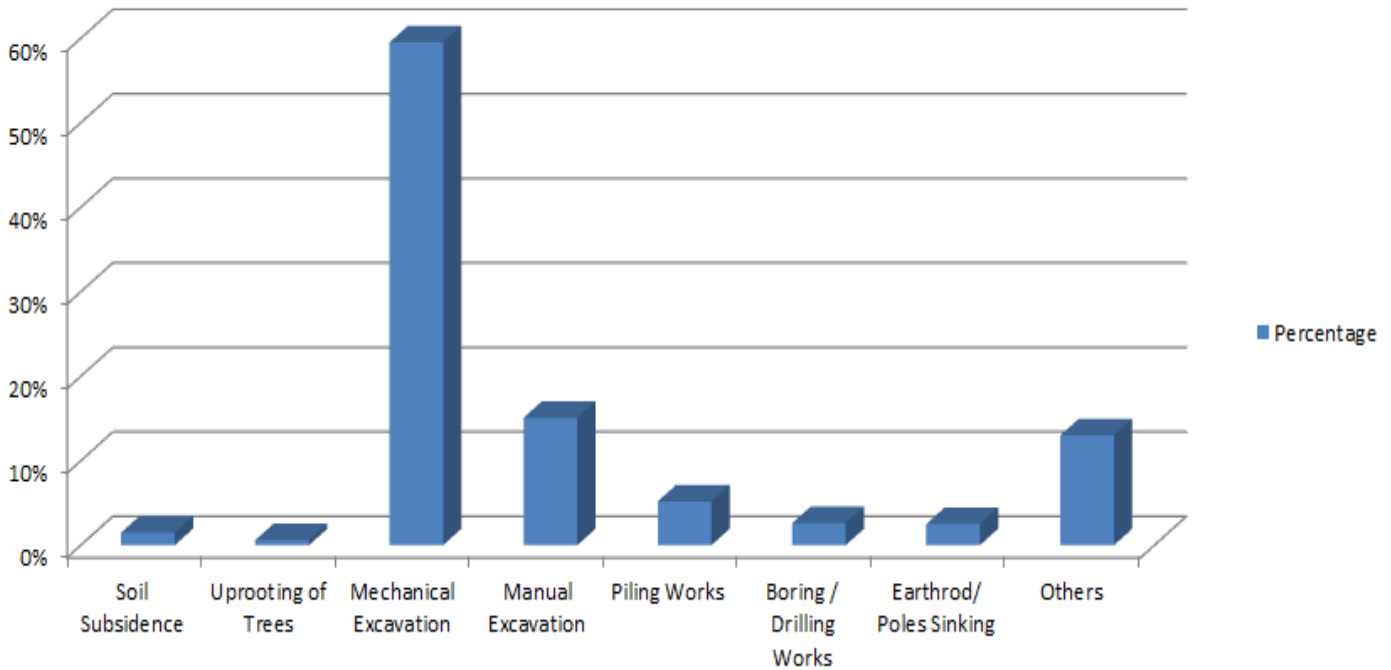
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Causes of Cables and Pipes damage



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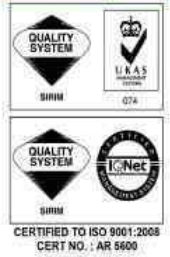
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Cables and pipes damage can be prevented

As most of us know, mechanical excavation accounted for the majority of cables and pipes damage. Manual excavation was the second major cause. However, cables or pipes damage during earthworks can be prevented if good practices are followed

Contractors need to be always vigilant of the presence of cables or pipes to adhere to good practices in cables or pipes damage prevention.

Contractors should always check against cables or piping plans for background electricity cables/pipes in the vicinity of their earthworks.

An over-grounded box is one of several indications of presence of underground electricity cables/pipes.

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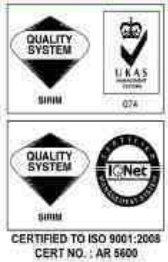
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By having cable or piping plans will help you and your licensed utility mapping contractors to determine cable locations - prior to earthworks and take measures to prevent damage.

There are a few simple steps you can take towards preventing cable damage:

1) Check for existence of underground electricity

Contractors must first check for existence of underground electricity cables by referring to cable plan. These plans can be obtained from the respective customer, town council, etc.

The cable plans will help you and your Licensed Cable Detection Workers to determine the presence of electricity at cable site - prior to earthworks - and take precautionary measures to prevent damage.

You should also look out for signs indicating the presence of underground electricity cables. These include **surface markers**, **cable slabs** buried underground, cable bridges and over-ground boxes. Below are the images showing the indication signs.



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Below are more images showing the indication signs.



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Redefining Supply
An ISO 9001:2008
Company

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2) Comply with statutory requirements on cable damage prevention.

Contractors must engage LCDWs to carry out cable detection works, confirm underground electricity cables, mark their locations and plot the information in the cable detection drawings.

If earthworks are intended in the vicinity of high-voltage cables (6.6kV, 22kV, 66kV, 230kV or 400kV), contractors must notify relevant parties prior earthworks.

Contractors should implement these good practices to keep underground electricity cables and pipes safe

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