**Client:** A Multinational Company who is the Project Supplier

**Scope of work handled by Kalkitech Power System Group:**

Power system Studies including Load Flow Analysis, Short Circuit Analysis, Motor Starting Studies, Harmonic Analysis, Protection studies, Relay setting Calculations

**Network Details:**

Network was represented from 33 kV to last relay location at LV side.

Network Diagram is shown in the following figure

![Network Diagram](image)

**Software Details:**

Kalkitech PowerApps software was used for the studies

**System Load Details:**

The system had an Electric Arc Furnace, A Ladle furnace, An SVC, 6.6 kV motors, Oxygen Plant, Several 415 volts switch boards supplying LT loads.
A Sample Time Current Characteristic Curve of Relay Coordination Study: