

- C. The contractor shall submit a certificate issued by the manufacturer that the electrical equipment's supplied against the contract under execution complies with the requirements of the EMC Directive.

#### **1.3.10.3 The CE Marking**

- A. All electrical products shall have CE Marking as an EU recognised certification mark that confirms the product has been tested and complies with the European Union Electromagnetic Compatibility Directive and other relevant directives, standards or norms.

#### **1.3.10.4 EMC Directive and Standards**

- A. The electro technical products shall be designed and constructed that do not cause excessive electromagnetic interference and are not duly affected by electromagnetic interference. Electrical products shall carry a CE mark and manufacturers 'Declaration of Conformity'.
- B. There are four generic standards:
  - a. EN 50081-1 1992 EMC - Generic emission standard - Part 1. Residential commercial and light industry.
  - b. EN 50081-2 1993 EMC - Generic emission standard - Part 2. Industrial environment.
  - c. EN 50082-1 1997 EMC - Generic immunity standard - Part 1. Residential commercial and light industry.
  - d. EN 61000-6-2 1999 EMC - Part 6-2: Generic standards - Immunity for Industrial Environments.

#### **1.3.10.5 Recommendations for Reducing Interference**

- A. The Contractor shall exercise the manufacturer's recommendation for reducing interference. Following is basic guidelines for ready reference that helps reduce radiated interference by screening of the equipment and cables. The conducted interference can be reduced by filtering the main supply.
  - a. Keep all cables as short as possible
  - b. Separate power cables and signal cables from each other and from different equipment
  - c. Shield the mains cable to the welding equipment if any