

1.11.1 ABBREVIATIONS OF STANDARDS

The standards, codes of practice, and recommendations of the following societies or instructions have either been used in the specification and or cited here as a general level of quality for equipment, material and workmanship.

Abbreviation for international institutions are given below.

International Electromechanical Commission	IEC
European Committee for Standardization	CEN
Abbreviations for some European societies and standards institutions are as follows :	
British standard Institution	BSI
Deutsches Institute fur Normung	DIN
Institution of Electrical Engineers, London	IEE
Abbreviation for Pakistani societies & standard Institutions	

1.12 ASSOCIATED CIVIL WORKS

The cost of all civil works associated with any item of electrical works, shall be included in the price quoted against respective items of bill of quantities for the electrical works. No separate payment for such works will be made.

1.13 SITE CONDITIONS

The Contractor shall familiarize itself with the existing conditions and limitations at site. No claim due to site conditions will be acceptable.

1.14 GENERAL INSTALLATION INSTRUCTIONS

The Contractor shall furnish all labour and materials, tools and equipment required to install, connect, test and commission all electrical equipment specified herein, whether or not such equipment is furnished by him or others.

For all equipment to be installed by the Contractor, the Contractor shall supply and install all installation materials such as foundation bolts, leveling steel, shims, clamps, cable sockets, lugs, solder, wall plugs, steel rowel bolts, washers, nuts, etc. as required and without any additional costs. In general, the manufacturer's instructions for installation shall be followed.

For any major departures from the working drawings that are deemed necessary by the Contractor due to site conditions, he shall submit the details & obtain Consultants approval at least, one or two weeks prior to starting of such works.

1.15 FIELD TESTING

Upon completion of the installation, the Contractor shall perform field tests on all equipment, materials and systems. All tests shall be conducted in the presence of the Consultant for the purpose of demonstrating equipment or system compliance with Specifications.

All tests shall be made with proper regard for the protection of the equipment and the Contractor shall be responsible for adequate protection to all personnel during such tests.