- K. HRC fuses shall have built-in blown fuse indicator feature.
- L. PFCC enclosure shall be fitted with forced ventilation fan and louvers if necessitated. IP rating in the case of forced ventilation shall be maintained to IP43 minimum.
- M. It shall be ensured to isolate the PFCC equipment completely in case alternate source of power supply using generator set is employed.
- N. PFCC enclosure shall be sized to accommodate an additional step of equal rating in the future if so necessitated.
- O. Capacitor shall be designed to carry 135% of rated current and 110% of rated voltages continuously at 50 degree C.
- P. Internal wiring within the PFCC enclosure shall be fire-retardant to 105 degree C.

1.3.18.2 Detuned Reactors/Harmonic Filters

- A. Anti-resonance reactor detuned or filters deemed necessary to reduce the harmonic content shall be provided in accordance with the regulation of the ADDC.
- B. Total Harmonic Distortion (THD) of voltage at point of common couplings shall adhere to **IEEE** Harmonic Standard 519-1992 and ER G5/4.

1.3.18.3 Power Factor Regulator

- A. The minimum number of capacitor switching steps shall be four (4) as far as practically possible for smaller rating capacitor banks and between 6 to 12 steps for others. The capacitors' KVAr shall be so chosen to provide maximum programming flexibility such as switching sequence 1:2:2:2, 1:1:1:1 etc. in order to maintain the power factor within the set limits for most of the operating time.
- B. An alphanumerical LCD, micro-processor based automatic power factor correction regulator shall be provided to control steps and display measurement of the following:
 - a. Power Factor
 - b. No. of steps connected
 - c. Step connection and disconnection time
 - d. Actual current
 - e. Reactive current