

In the event that such consent being given, appropriate warning in writing shall be given in advance of the date of the commencement of the road closure to all appropriate Authorities and other persons that may be affected by such closure.

All warning signs fixed and maintain shall be together with any diversion notices as may be required by the Road Authority, the Police and the Engineer.

## **9.16 Electrical Safety**

Electrical safety is a subject requiring utmost care in all industrial operations. To prevent shock, burns, fire and explosions the safe practices detailed below should be observed strictly:

- a) A proper work permit with electrical isolation/de-isolation shall be obtained before doing electrical works in any restricted area. The established procedures will be followed strictly.
- b) A non-conductive safety helmet, rubber mats, safety gloves, electrical safety shoes shall be used.
- c) Wearing of loose clothing, chains, rings, wrist watches is not allowed.
- d) Follow the internationally accepted wiring color code at all times.
- e) All electrical maintenance or repair work shall be performed by a competent and authorized electrical person.
- f) All electrical work in hazardous areas shall be decided and planned by the supervisor taking into consideration the hazard, competency of the individual, tools and equipment requirement, condition of weather, etc.
- g) During maintenance and repair work, the equipment involved should be isolated and locked out to ensure physical separation and inadvertent switching on.
- h) Electrical tools and equipment should be inspected periodically. Damaged or defective tools shall be returned to tool room/workshop for necessary repair.
- i) At night, standard warning signs, barriers, red lights, etc. shall be used.
- j) Regard all conductors as 'Live,' do not touch them. Use a meter.
- k) All junction boxes, circuit breaker panels shall be covered.
- l) 'ELCB' shall be used on all circuits and in extended power from extension rolls using portable electric power tools. (ELCB - Earth leakage circuit breaker)
- m) Overloading of electric circuits is prohibited. All circuits shall be used only for designated load.
- n) Steam, water or oil leaks near electrical equipment shall be reported to the supervisor.
- o) Work in pairs on electrically energized equipment; one can check and render aid if necessary.
- p) Never insert bare wires into outlets. Use only approved three pin plugs.
- q) A minimum gap of 6 meters shall be maintained between the top of the boom and energized overhead high voltage line to avoid energizing of crane.
- r) All repair or maintenance work on motors, starters and other electrical apparatus shall be done with devices isolated. Testing shall be done only by authorized competent persons.
- s) Hot fuses or circuit breakers shall be handled with rubber gloves and approved fuse pullers.
- t) Handles of electrical tools shall be insulated properly.