

SCOPE OF WORK

Scope of work for upgrading existing Electrical Systems 9 Toure Drive

At 9 Toure Drive we had previously upgraded the incoming electrical Supply from Tanesco and acquired a dedicated high voltage line and a step down dedicated transformer. This provides the main incoming electrical supply to the house and the property. We then installed a dedicated automatic voltage regulator and also installed a larger emergency generator. We then provided electrical earth grounding pits for the generator area and the main house. We contracted out the repairs to the overloaded electrical distribution panels inside the kitchen pantry area.

We later ordered a 400 am automatic transfer switch that should be arriving in the next 90 to 100 days from the US. We need price quotes for the below. At times this house draws up to 178 amps per phase and we are adding more load demand as per the below. Current Automatic Transfer switch capacity is only 150 amps with a 10 per cent adjustment.

- 1). Replace the currently undersized Load Distribution panel in the generator room with a load center of at least 350 amp capacity.
- 2). Replace the currently undersized electrical cables from the main incoming transformer to the new load distribution center. We need to make sure we have a minimal of 35 MM Square, 4 Core properly insulated cables. All work must meet or exceed American Electrical installation standards. NEC and the British Electrical Codes are very similar.
- 3). Replace all electrical feed and distribution cables inside the room where the current load center is situated.
- 4). Install new electrical distribution panels inside the same room and the neighboring guard area room. Upgrade both of these small electrical panels to 18 branch Circuit Breaker panels with spare capacity.
- 5). From the current room where our load distribution panel is located to inside the main house we must have an additional 75 amp service capacity above current capacity.
- 6). Inside the main house