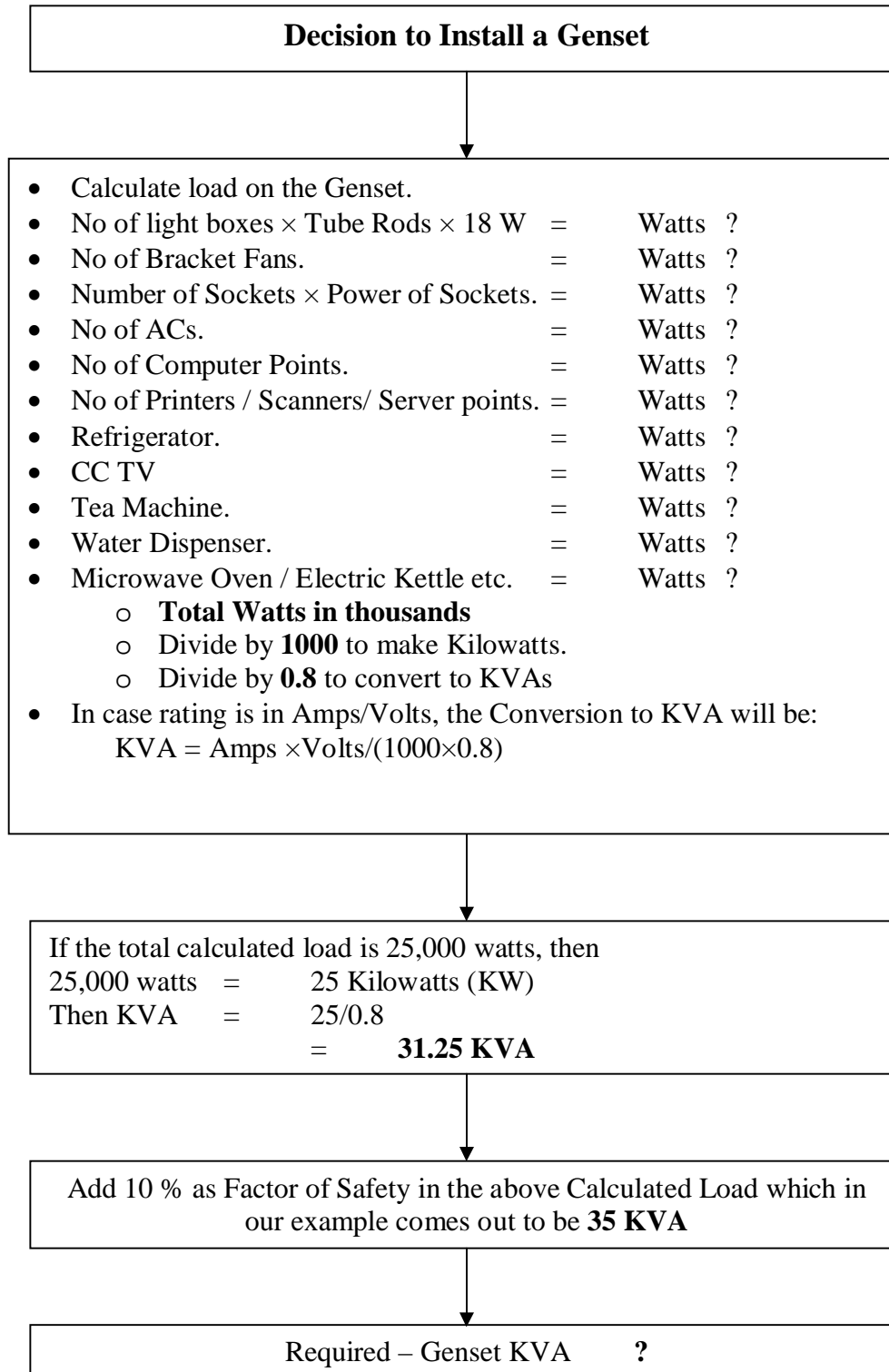
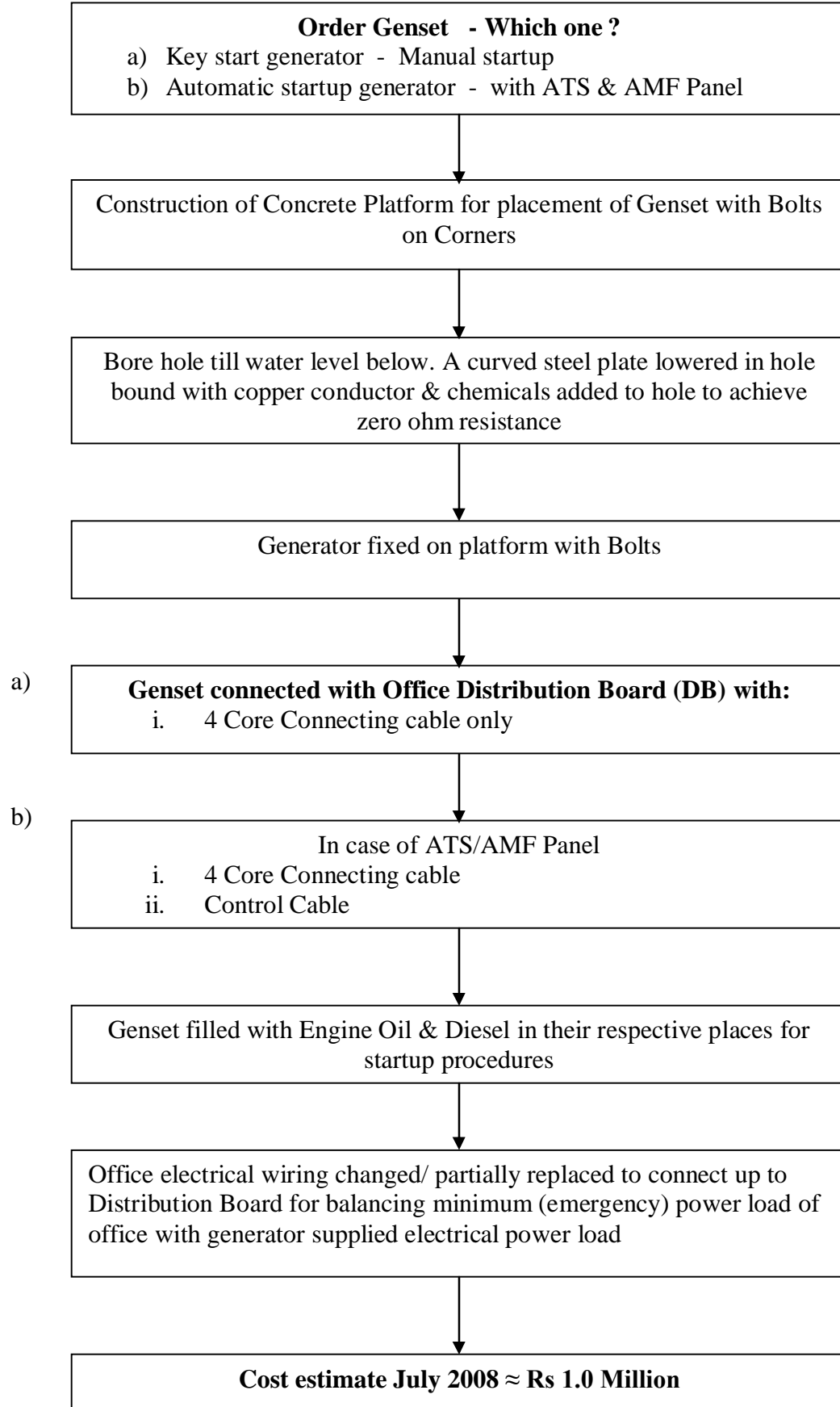


## Steps to put up a Generator Set

This is an example to put up a generator set in an office to support the office electricity requirements during the load shedding and power failures. It is assumed that the office has a minimum of 40 employees working a corporate setting. The costing is done on the basis of market survey and physical requirements.





## **Genset Installation Checklist**

- ⇒ Calculation of lighting load
- ⇒ Calculation of Fan load
- ⇒ Calculation of AC load.
- ⇒ Calculation of Computer load.
- ⇒ Calculation of CCTV & Server load.
- ⇒ Calculation of Refrigerator/Tea Machine/ Water Dispenser load.
- ⇒ Conversion of electrical load in Watts to Kilowatts (KW).
- ⇒ Conversion of electrical load from KW to KVA.
- ⇒ Insertion of Steel Copper Plate with Conductor & Chemicals.
- ⇒ Placement of bolts on corners of Concrete platform
- ⇒ Bolting of Genset on the Concrete platform.
- ⇒ Connection of Genset to DB (if already available)
- ⇒ Connection of Control Cable in case of ATS & AMF Panel
- ⇒ Filling water in Radiator
- ⇒ Filling Engine Oil
- ⇒ Filling Diesel
- ⇒ Modification/Replacement of electrical wiring of Office and connect to DB. (If DB is under capacity, put in a new DB)
- ⇒ Startup of newly installed Genset
- ⇒ Input load from generator should balance with demand load from office items/equipment and still leave 10 % of input capacity from generator unutilized as a safety margin