**GENSET SPECIFICATION**

| **Lot No.** | **Technical Specification of items requiredincluding applicable standards** | **Compliance of specification offered** |
| --- | --- | --- |
| ***a*** | ***B*** | ***C*** |
| **General** | Must be factory new when supplied |  |
| **Body Type** | * Designed and built at ISO 9001Certified facility
* Factory tested to design specifications at full load condition
* Fully engineered with a range of options and accessories
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| **Engine** | * Industrial water-cooled diesel engine
* Governor mechanical
* Electrical system 12 VDC
* Cartridge type fuel and oil filters
* Air filters
* Battery (s) rack and cables
* Sound proof
 |  |
| **Generation Capacity** | * Stand by - **40 KVA**/ **32KW**
* Prime - **36.6 KVA/29 KW**
* 50HZ
 |  |
| **Control System** | * Key start control panel
* Vibration isolated sheet steel
* Enclosure with lockable door
 |  |
| **Mounting**  | * Heavy duty fabricated steel base with fitting points
* Ant vibration pads to ensure vibration isolation
* Engine coupled to generator with flexible disc coupling
* Base frame incorporates heavy duty fabricated steel fuel tank of at least 8 hours running capacity
* Overhead mounting kit for silencer
 |  |
| **Exhaust System** | * Heavy duty industrial capacity exhaust silencer (Approximately 10Db reduction) supplied loose
* ABS/EBD systems
 |  |
| **Cooling System** | * Standard ambient temperature up to 50OC (122OF)
* Fan- fan drive and charging alternator fully guarded
* Ant freeze protection coolant
 |  |
| **Circuit Breaker** | * 3 Phase miniature circuit breaker (mcb) 60amps and 3 pole molded case circuit breaker (mcb) more than or equal to 60 amps
* Vibration isolated sheet steel enclosure with removable cover plate
* Outgoing cable stub up area directly below circuit breaker
 |  |
| **Automatic Regulator** | * Voltage regulator ± 0.5%
* Automatic change over
* Provide fast recovery from transient load changes
 |  |
| **Equipment Finish** | * All electroplated hardware
* Ant corrosive paint protection
* High gloss polyurethane paint for durability and scuff resistance
 |  |
| **Quality Standards** | * BS4999,BS5000,DB5514,IEC60034,VDE0530
 |  |
| **Warranty** | * Must carry 12 Months Full Manufacturer’s Warranty
* Operating Manual
 |  |
| **Installation and commissioning** | * 37 Meters from ESCOM power distribution main
 |  |
| **After sales Service** | The supplier must have an authorised agent in Malawi to cater for repairs and spare parts. |  |