**GENSET SPECIFICATION**

| **Lot No.** | **Technical Specification of items required including 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 |  |
| **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. |  |