1 unit - Supply of Brand new **50kVa/40kw** on site Standby Power Generator set completely build up imported unit (3 phase, three wire 230V, 60 Hz), with exciter type alternator, 150 Amps Digital ATS Controller, Mechanical governed diesel engine, design to comply ISO 9001, and comes complete with all standard accessories and in Supersilent Type Soundproof Enclosure, with the following specifications to with;

 **Model**

 Rated Speed : 1,800 RPM

 Prime Power : 45.5 kVA/36.4KW

 Standby Power : 50 kVA/40KW

 Rated Voltage (line to line) : 230 V

 Output frequency : 60 Hz

 Phase : 3

 Base Tank Capacity : 250 liters

 **Engine**

Type : 4 cylinders, 4 cycle diesel

 Aspiration : Turbocharged

 Engine Speed/Frequency, RPM/Hz : 1800/60HZ

 Bore/Stroke : 102/120

 Compression Ratio : 17.3/1

Prime power at 1800 rpm : 36.4 kW

 Standby power at 1800 rpm : 40 kW

 Speed governor : Mechanical

 Cooling system : Water-cooled

 Coolant Capacity, L : 7.2

 Fuel consumption at 100% load, L/H : 10.2 (at 1800rpm)

 Noise Level, dBA@1m : <70dBA

 Lubricant system Capacity, L : 14.2

 Displacement, L : 3.9 or below

 Starting System : Electric 24 volt DC

 Battery Voltage / Capacity : 24VDC

  **Alternator**

Protection grade : IP23

 Self exciting, brushless type : Single bearing,

 Doubled shielded

 Rotator balance : BS5625 standard 12.5

 Power factor : 0.8 lagging

 Installation type : Class H

 Drip proof rated : IEC60034

 Self regulating, resist humid grease and with fan cooling

 Rotator silicon steel close tight

 High-quality lubrication sealed long-time bearing

 Stator grease insulation covered

 **Built and Tested to ISO 9001 Quality Assurance Standards**

 **Dimensions (L x W x H) (mm)** : 3100x1200x1550 or below

 **Weight** : 1,450 Kg.

 **Standard Features :**

* Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting with cables.
* Equipped with two large doors on each side, radiators fill access plate, lube oil and cooling water drains pipes to exterior of the enclosure
* Security and safety- control panel viewing window in a lockable access door, emergency stop push button (red) mounted on enclosure interior, exhaust silencing system totally enclosed to operator safely and cooling fan and battery charging alternator fully guarded.
* Enclosure body made from steel components treated with polyester powder coating and black finish stainless steel lock and hinges.
* 100 Liters Base Fuel Tank capacity designed for 8-hours operation, at least 3mm thickness minimum 100% steel, with necessary drain outlet, fuel in and back outlet. ( Full tank upon commissioning)
* Equipped with Branded MCCB and ACB circuit breaker.
* Equipped with the base mounted control panel in a vibration isolated sheet steel enclosure, which has the following features:

 1. Instruments : Analogue Voltmeter, Hours Run Meter and Water pressure meter.

 2. Controls : Emergency Stop Pushbutton, Voltmeter Phase Selector Switch.

 3. Control module : Main features

 1. Automatic mains failure

 2. Engine control, Generator protection

 3. Built in alarms and warnings

 4. Remote Start operation

 5. Daily / weekly / monthly exerciser

 6. Weekly operation schedule program

 7. Fuel pump control

 8. Mains simulation

 9. Block heater control

 10. Field adjustable parameter

 11. Free MS-Windows Remote monitoring

 12. Led displays

 13. Configurable analogue inputs

 14. I/O expansion capability

 - Equipped with Digital Automatic Transfer Switch, rated 150Amperes, 3 Phase, 3 wire, 230V, 60Hz, complete with ground bus, pre-wired and assembled in Wall Mounted Enclosure and can detect single phasing, high voltage and low voltage.

 - Supersilent type (70dBA@1.00meter) – Strict sound test to perform upon delivery.

**Notes :**

 Supplier should render FREE Installation, Commissioning and Training.

 Supplier should have a Local Office in Cagayan de Oro City with at least five (5) years minimum operation.

 Issuance of 3 years Warranty Certificate on Engine and Alternator: (Monthly visit on the first year and Quarterly for rest of warranty period).

 Bidders must show one (1) proof of Completed Project with three (3) Years Warranty of Awarded Contract to any Government Entity with same sound level of 70 dBA@1 meter.