



## Invitation to tender (UVgO) 160KVA Generator

Thank you for your interest in this invitation to tender.

We hereby invite competent and potential suppliers for the 160KVA Generator. Enclosed you will find the necessary general information, conditions, and forms. The following tender conditions apply

### Generator Set Specification

1. Diesel engine generating set stand by capacity 160KVA 160 KW 3 phase pout put voltage 400/230 frequency 50Hz power factor 0.8rpm 1500 four wire system
  - Known engine and alternator brand
  - Fully automatic main failure electronics control unit (stop-manual-auto-maintenance start button text display screen configurable).
  - Separately mountable automatic transfer switch (ATS) board with indicators, safety controls and labels
  - Maintenance-free starter battery having strong cold cranking ampere hours
  - Back-up miniature charger installed in the unit
  - emergency stop button
  - fuel tank capacity for 8 10 operation hours
2. Engine Features
  - Fuel -type diesel
  - Cooling system water cooled
  - Battery start system
  - Ambient temp 27°C
  - Alternator to engine direct coupling
  - charging alternator, water pump, and fun belt drive
3. (AMP) electronic control unit
  - Dse 60xxxx series or computable
  - Low oil pressure and height engine temperature control
  - Under/ over generator volt control

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- Under/ Over generator speed control
- Over current of generator control
- Low fuel/low coolant level control
- Under /Over utility voltage control
- Under/Over utility frequency control
- Charging system control
- Low/high battery voltage control
- 3Phase generator and utility voltage sensing
- Start-stop failure control etc...

#### 4. Safety

- The generator set must build in a soundproof and waterproof enclosure(canopy) that features door sealing system comprising of unique foam and seal layering structure to ensure a water-tight seal and improved sound attenuations.
- The generator set must be bolted to heavy duty frame with an anti-vibration pad
- The exhaust pipe out late must be straight upward covered by a flying cup and the cooling air direction is straight forward
- All moving parts of the generator set are covered by a protective guard
- The fuel tank must be built within the unit frame easy and safe for fueling
- Stand by generator set is powering offices; in training centers the noise pressure level is to be the lower standard.
- The set unit must have fuel, water drainage provision, and proper lifting facility

#### 5. Additional requirements

- Supply of recent effective specifications
- Installation and erection materials cost should be attached in financial document. Cable price should be listed per meter base.
- Operation and service manuals installation trouble shooting manual, wiring diagrams for ATS and ECU as well as alternator and alternator parts.
- List and price of one-time service spare parts
  - a. Fuel filter
  - b. Oil filter
  - c. Air filter
  - d. Drive belts

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## 6. Warranty

- Product warranty against manufacturing defects.

Tenders submitted must be accompanied with:

- Renewal business license, VAT/TIN registration certificate, an official authorization letter from the original manufacturer (if applicable)
- Authorization to import, manufacture, and/or Distributor products
- Company profile
- Evidence of past performance and experience in similar work

## 7. Award criteria/determination of the most economically advantageous tender

The most economically advantageous tender from suitable bidders will be determined considering the following exclusion/evaluation criteria (evaluation on a scale of 0-10) with the specified weighting:

- Price with 30% weighting
- Quality with 50% weighting
- Delivery time with 20% weighting

Bids must be put in a sealed envelope, clearly marked by bidder's name, address, legal stamp, and submit their technical documents and price in person to the below address from November 08, 2024, to December 06.2024, from 8:00 a.m. to 5:00 p.m. international time. Bids submitted after 5 p.m. on 6 December will not be considered. Only completed bids are accepted.

**Goethe-Institut Äthiopien/የጀርመን ባህልና ቋንቋ ተቋም**

**Sedist Kilo, College of Business and Economics**

**P.O.Box 1193 Addis Abeba, Ethiopia**

**Tel. +251 11 124 2345-46**

Goethe-Institut Äthiopien will open tender response on Date 09.12.2024 at its own Discretion.



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