



## Bid Notice Abstract

### Invitation to Bid (ITB)

**Reference Number** 9177312  
**Procuring Entity** DEVELOPMENT BANK OF THE PHILIPPINES - CENTRAL LUZON  
**Title** SUPPLY, DELIVERY, INSTALLATION, TESTING, AND COMMISSIONING OF TWO (2) SETS OF 50KVA POWER GENERATING SET WITH AUTOMATIC TRANSFER SWITCH FOR DBP GUAGUA AND PALAYAN BRANCHES

#### Area of Delivery

<b>Solicitation Number:</b>	G-2022-05	<b>Status</b>	<b>Active</b>
<b>Trade Agreement:</b>	Implementing Rules and Regulations	<b>Associated Components</b>	1
<b>Procurement Mode:</b>	Public Bidding	<b>Bid Supplements</b>	0
<b>Classification:</b>	Goods	<b>Document Request List</b>	5
<b>Category:</b>	Power Generation and Distribution Machinery	<b>Date Published</b>	31/10/2022
<b>Approved Budget for the Contract:</b>	PHP 2,130,000.00	<b>Last Updated / Time</b>	31/10/2022 00:00 AM
<b>Delivery Period:</b>	60 Day/s	<b>Closing Date / Time</b>	23/11/2022 09:00 AM
<b>Client Agency:</b>			
<b>Contact Person:</b>	May Villanueva Mendoza RBAC for Central Luzon Secretariat Mc Arthur Hi-way, Dolores San Fernando City Pampanga Philippines 2000 63-63- 63-045-9631232  clbg@dbp.ph		

#### Description

##### TECHNICAL SPECIFICATIONS

ENGINE All engine shall be with high combustion efficiency, low fuel consumption, long time continuous running, long working life and easy to maintain in compliance with ISO-3046 standard.

Rating: 50KVA  
 Operating Voltage range: 208 to 240V  
 Frequency: 60Hz ±5%  
 Engine speed: ≥ 1500 RPM  
 Governor type: Electrical  
 No. of Cylinders: ≤ 4  
 Compression ratio: 16:1/17.25:1/19:1  
 Bore: 95 to 105mm  
 Stroke: 115 to 127mm  
 Displacement: 3.3 to 4.5L

FUEL SYSTEM Fuel system: Diesel  
 Fuel Tank capacity: 60 to 125L  
 Liquid cooling  
 Lubrication oil

BATTERY PARAMETERS Battery type: 12V, 65Ah Lead  
 Acid Battery with  
 suspended  
 Electrolyte &  
 Easily replaceable  
 or Equivalent  
 Starting Voltage: 12v DC in parallel  
 ALTERNATOR 50kVA output rating  
 Operating Voltage range: 208 to 240V  
 Frequency: 60Hz ±5%  
 1-phase, 2-wire + ground  
 0.8 (lagging) power factor  
 ±0.5 within voltage regulation  
 Insulation type: class H  
 Exciter Type: Brushless, self-excited

RADIATOR All radiators shall be standard 40°C ambient temperature online radiator, closed water circulation cooling system, ensure the rated power output of under high temperature environment.

STEEL WELDING BASE INBUILT SHOCK ABSORBER Inbuilt shock absorber, perfect shock absorption performance, easy installation and transport, no need to install shock pad on the connection of base foundation and fixed.

CONTROL SYSTEM • Automatic controller shall be integrating digital, intelligent, network technology uses for a single diesel generator set for automation and monitoring.  
 • Implements an automatic starting / stopping, data measurements, and alarm protection function of the generator set.  
 • Voltmeter, Ammeter, Frequency, Water temperature gauge, Battery condition meter, Hours run meter, Mode selector

(Auto, Run, Off), Set mounted circuit breaker cubicle contained in a suitable rated molded case circuit breaker for the generator set.

#### STANDARD PROTECTION FUNCTION

##### Genset Protection

Programmable alarm and status input  
Emergency stop

##### Engine Protection

Stop for over speed  
Alarm for low/high battery voltage  
Alarm/Stop for low oil pressure  
Alarm for shortage of battery  
Alarm/Stop for high coolant temperature  
Stop for failure to start/jigger  
Indication for sensor fault

##### Alternator Protection Stop for over high/low voltage

Stop for over frequency  
Alarm/stop for over current  
Stop for low frequency  
Stop for loss of voltage detection signal

##### Control System Components Control switch—manual/auto/stop/start

Screen menu selection button  
Setting button  
Emergency stop button  
Fault status indicators

#### ACCESSORIES

Standard tools consist of the following: Adjustable wrench - 1 pc

Socket wrench - 1 pc  
Mechanical plier - 1 pc  
Long nose plier - 1 pc  
Philip screw driver - 1 pc  
Screw driver - 1 pc  
Air and oil filter - 3 sets  
Instruction manual/part list  
Repairs and Maintenance  
Unit (RMU) Copy - 1 set  
Guagua Branch Copy - 1 set  
Palayan Branch Copy - 1 set

Automatic Transfer Switch One (1) brand new unit automatic transfer switch (ATS) Contactor type (base on the capacity of genset to be supplied), 220 Volts, Single (1) Phase with NEMA 3R enclosure

Sound Reducing/Weather Protected Canopy/Casing • Made of B.I. Ga# 14 enclosure painted with epoxy enamel top coat finished.

- Provided with individual lock doors
- Wind shield rubber
- The enclosure is equipped with fixed air intake louvers and expanded metal exhausts air opening
- Fiber glass insulation mounted between the wall of the enclosure and double walling perforated metal sheet, steel butt hinges and internal acoustic walling.

Wire and Cables All necessary cables and support shall be provided by the contractor to complete all requirements to operate Generating Sets

Power House Structure • Dismantling of existing power generating set

- Replacement of existing feeder lines compatible to newly installed generating capacity
- Dismantling and replacement of existing manual transfer switch

#### WARRANTY PERIOD AND PERMITS

Warranty One (1) year warranty upon final acceptance of the project. If ever the Power Generating set developed trouble and or malfunction within the warranty period the same shall be repair / parts replaced free of charge and its warranty will be extended until such time the contractor completed the repair.

Cost of transportation and technicians per diem shall be also to the account of the contractor.

Permits • The Contractor shall provide as-built Machinery Plan layout, 1 – Set Original and 5 Sets, Blue print with signed and sealed by Professional Mechanical Engineer.

- The Contractor is responsible in preparation of Engineer's report duly sign and sealed by Professional Mechanical Engineer to be submitted to LUG and DENR securing Permit to Operate (PTO).

#### Pre-bid Conference

Date	Time	Venue
09/11/2022	2:30:00 PM	DBP San Fernando, Pampanga Lending Center, 2nd Floor Doña Isa Fel Bldg., Dolores, CSFP

**Created by** May Villanueva Mendoza

**Date Created** 30/10/2022

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