Annex "C"

TERMS OF REFERENCE AND CONDITIONS

Project/Title	SUPPLY AND DELIVERY OF ONE (1) UNIT BRAND NEW DIESEL AC	
	POWER GENSET 75KVA (SILENT TYPE)	
Approved Budget for the Contract	One Million Three Hundred Thousand Pesos (P 1,300,000.00)	
Fund Source	Revolving Fund	
End-user	PCC-MMSU	
Place of delivery	PHILIPPINE CARABAO CENTER at MMSU	
	Batac, Ilocos Norte	
Delivery Period	One Hundred Twenty (120) calendar days upon acceptance of	
	Notice to Proceed	
Definition of Similar contract	Similar contract refers to project/s that involves supply and	
	delivery of Generating Set/Farm Machineries/Equipment	
Minimum Requirements for Bidders	It is understood that the equipment to be offered must be complying with the specifications called for.	
	2. The bidder must have completed a single contract within the last five (5) years similar to the project equivalent to at least fifty percent (50%) of the ABC amounting to (P 650,000.00) OR	
	Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least fifty percent (50%) of the ABC and the largest of these similar contracts must be at least half of the percentage of ABC required above amounting to (P 325,000.00).	
	3. The bidder must have a valid National Agricultural and Fisheries Machinery Assemblers, Manufacturers, Importers, Distributors and Dealers Accreditation and Classification (NAMDAC) Certificate of Accreditation (CoA).	

Item	Description/Equipment	Quantity	Unit	Unit Cost	Total Cost

No.					
1	BRAND NEW DIESEL AC POWER	1	Unit	P 1,300,000.00	P 1,300,000.00
	GENSET 75KVA (SILENT TYPE)				
	TOTAL				P 1,300,000.00

TECHNICAL SPECIFICATIONS

ONE (1) UNIT BRAND NEW DIESEL AC POWER	GENSET 75KVA (SILENT TYPE)
Standy Power	60kW/75KVA
Prime Power	54KW/67.5KVA
ATS	Automatic switch rated 200Amp, breaker type,
	230V, 3 phase
Engine Specification:	 Configuration: 4 cycle, 4 cylinders in line
ELECTRONICALLY CONTROLLED ENGINE	Aspiration: Turbo charged Rated Speed :
	1800rpm
	Standby Power: 75KVASpeed Governor: FLECTRONIC
	Speed dovernor. Eller Mortie
	Injection System : at least direct injectionCooling System: Water cooled, 40°C
	Radiators As Standard, 50°C is optional
	Fuel consumption at 100% load: not more
	than 19 L/hr (Standby)
	■ Starter motor: DC 12V/24V
Alternator Specifications:	■ Capacity: 75KVA
	■ Voltage:220V
	Frequency & Speed: 60HZ/1800RPM
	Exciter Type: Brushless, Self-excited
	Power factor: 0.8
	Voltage Adjust Range :> 5%
	■ Voltage Regulation NL-FL: < + 0.5%
	Insulation Grade: H
	Protection Grade:IP23
Control System:	■ Automatic Start/Stop
	 3 Start attempts failure and Automatic

	Crank Disconnect Parameter display (V/A/Hz/Hour) Engine monitoring and protection Charge alternator exciting and charge alternator fail alarm Running hour counting Settings can be adjustable via key buttons on front panel
Other Requirements:	Sound attenuated/all weather protective enclosure at 85dBA noise level at 1 meter and manufactured according to ISO standard complete with the following: with provision for lifting multiple Swing Doors POWDER COAT FINISHED, utilizing a SEVEN (7) STAGES of Chemical treatment (de-rusting process) stylen (de-ru
Automatic Transfer Switch:	 200 Amperes Rating minimum Breaker Type or Change Over Type Three (3) Phase 220-240V
Breakers for Automatic Transfer Switch (ATS): Installation:	 USA, United Kingdom and Europe brand Delivery and positioning of generator set within the ground level only Installation of vibration isolators Installation of exhaust tail pipe complete

	with bracket and painted with high heat
	paint
	Installation of ducting complete with
	bracket and canvass cloth
	Installation of cable wire (maximum length
	of wire is 10 meter/line) from genset
	breaker to ATS emergency side within the
	standard size power house only, Line side
	and Load side shall be for the account of
	Philippine Carabao
	 Installation of control wiring from genset
	to ATS
	 Testing and commissioning, consumables
	shall be for the account of the PCC
	On hand Training of PCC's Authorized
	representative on how to maintain and
	operate the generator set
Additional Requirements:	 Inclusive of installation, testing and
	commissioning
	Length of wire: 10 meters from Generating
	Set to ATS/line
	Additional exhaust pipe, wires and
	accessories
	Two (2) years warranty from the date of
	commissioning/ acceptance or 1500 hours
	operation whichever comes first
	 After sales service visit schedule
	 Availability of parts and service within the
	next five (5) years from the date of
	acceptance
	Training
	USA, United Kingdom and Europe brand
	for the Engine and Alternator

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