

**SUPPLEMENTAL/BID BULLETIN NO. 1**

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF  
ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC  
TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE  
PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH  
AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA  
TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY,  
NAVAL & PALOMPON  
(PMO-WLB-GS-2017-001)**

**TO :** All Prospective Bidders  
Members BAC, PMO-WLB  
Others Concerned

Relative to the above project which was posted in the PhilGEPS, PPA website and in conspicuous places on 14 December 2017, please be informed of the following changes:

**A. Terms of Reference:**

**Genset Minimum Specifications and Accessories**

**2.) Five (5) Units of 75kVA Generator Sets for TMOs of Maasin, Hilongos, Baybay, Naval & Palompon**

**From:** Number of Cylinders: 6

Prime Rating Power (kW/kVA): 52kW/65kVA

Standby Rating Power (kW/kVA): 75kW/75kVA

Fuel consumption at 100% load (L/H) – Diesel 20L/H

**To:** Number of Cylinders: 4

Prime Rating Power (kW/kVA): 60kW/75kVA

Standby Rating Power (kW/kVA): 66kW/83kVA

Fuel consumption at 100% load (L/H) – Diesel 18.6L/H

**Technical Specifications of Automatic Transfer Switch**

**For 75 KVA Generator Set**

**From:** Rated Voltage: 220 -240V, 3-Phase

**To:** Rated Voltage: 220 -240V, Single Phase

**Vision**

*By 2020, PPA shall have provided port services of global standards.*

**Mission**

- 1. Provide reliable and responsive services in ports, sustain development of communities and the environment, and be a model corporate agency of the government.*
- 2. Establish a mutually beneficial, equitable, and fair relationship with partners and service providers.*
- 3. Provide meaningful and gainful employment while creating a nurturing environment that promotes continuous learning and improvement.*
- 4. Establish a world-class port operation that is globally competitive adding value to the country's image and reputation*

# Bidder's Support Services

## Bidder/ Supplier Requirements

From: Preferably with 5years industry experience in the supply of generators set.

To: Preferably with 10years industry experience in the supply of generators set.

## B. Schedule of Requirements

From:

Item No.	Description	Unit of Measure	Quantity	Total	Delivered, Weeks/ Months
1	<b>Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Three (3) Phase at Baseport Ormoc</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	18	18	
	Eye Terminal 200mm	Pc	2	2	
	PVC Pipe, 3" dia.	Length	2	2	
	PVC Elbow, 3" dia.	Pc	3	3	
2	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Maasin, So. Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	65	65	
	PVC Pipe, 3" dia.	Length	11	11	
	PVC Elbow, 3" dia.	Pc	6	6	
3	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Hilongos, Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	50	50	
	PVC Pipe, 3" dia.	Length	10	10	
	PVC Elbow, 3" dia.	Pc	8	8	
4	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Single Phase Set at the Port of Baybay, Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	50	50	
	PVC Pipe, 3" dia.	Length	10	10	
	PVC Elbow, 3" dia.	Pc	8	8	
5	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Pahse at the Port of Naval, Biliran</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	50	50	
	PVC Pipe, 3" dia.	Length	9	9	
	PVC Elbow, 3" dia.	Pc	6	6	
6	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Palompon, Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	140	140	
	PVC Pipe, 3" dia.	Length	21	21	
	PVC Elbow, 3" dia.	Pc	8	8	



To:

Item No.	Description	Unit of Measure	Quantity	Total	Delivered, Weeks/ Months
1	<b>Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Three (3) Phase at Baseport Ormoc</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	36	36	
	Eye Terminal 200mm	Pc	3	3	
	PVC Pipe, 3" dia.	Length	4	4	
	PVC Elbow, 3" dia.	Pc	6	6	
2	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Maasin, So. Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	85	85	
	PVC Pipe, 3" dia.	Length	15	15	
	PVC Elbow, 3" dia.	Pc	8	8	
3	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Hilongos, Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	65	65	
	PVC Pipe, 3" dia.	Length	13	13	
	PVC Elbow, 3" dia.	Pc	11	11	
4	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Single Phase Set at the Port of Baybay, Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	65	65	
	PVC Pipe, 3" dia.	Length	13	13	
	PVC Elbow, 3" dia.	Pc	11	11	
5	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Naval, Biliran</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	65	65	
	PVC Pipe, 3" dia.	Length	12	12	
	PVC Elbow, 3" dia.	Pc	8	8	
6	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Palompon, Leyte</b>	Lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	Meter	182	182	
	PVC Pipe, 3" dia.	Length	28	28	
	PVC Elbow, 3" dia.	Pc	11	11	

C. Bill of Quantities (Annex E)

From:

Item No.	Description	Unit of Measure	Quantity	Unit Cost	Total
1	<b>Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Three (3) Phase at Baseport Ormoc</b>	Lot	1		
	Stranded Wire 200mm	Meter	18		
	Eye Terminal 200mm	Pc	2		
	PVC Pipe, 3" dia.	Length	2		
	PVC Elbow, 3" dia.	Pc	3		
2	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Maasin, So. Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	65		
	PVC Pipe, 3" dia.	Length	11		
	PVC Elbow, 3" dia.	Pc	6		
3	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Hilongos, Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	50		
	PVC Pipe, 3" dia.	Length	10		
	PVC Elbow, 3" dia.	Pc	8		
4	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Single Phase Set at the Port of Baybay, Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	50		
	PVC Pipe, 3" dia.	Length	10		
	PVC Elbow, 3" dia.	Pc	8		
5	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Pahse at the Port of Naval, Biliran</b>	Lot	1		
	Stranded Wire 200mm	Meter	50		
	PVC Pipe, 3" dia.	Length	9		
	PVC Elbow, 3" dia.	Pc	6		
6	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Palompon, Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	140		
	PVC Pipe, 3" dia.	Length	21		
	PVC Elbow, 3" dia.	Pc	8		




To:

Item No.	Description	Unit of Measure	Quantity	Unit Cost	Total
1	<b>Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Three (3) Phase at Baseport Ormoc</b>	Lot	1		
	Stranded Wire 200mm	Meter	36		
	Eye Terminal 200mm	Pc	3		
	PVC Pipe, 3" dia.	Length	4		
	PVC Elbow, 3" dia.	Pc	6		
2	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Maasin, So. Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	85		
	PVC Pipe, 3" dia.	Length	15		
	PVC Elbow, 3" dia.	Pc	8		
3	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Hilongos, Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	65		
	PVC Pipe, 3" dia.	Length	13		
	PVC Elbow, 3" dia.	Pc	11		
4	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Single Phase Set at the Port of Baybay, Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	65		
	PVC Pipe, 3" dia.	Length	13		
	PVC Elbow, 3" dia.	Pc	11		
5	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Pahse at the Port of Naval, Biliran</b>	Lot	1		
	Stranded Wire 200mm	Meter	65		
	PVC Pipe, 3" dia.	Length	12		
	PVC Elbow, 3" dia.	Pc	8		
6	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Palompon, Leyte</b>	Lot	1		
	Stranded Wire 200mm	Meter	182		
	PVC Pipe, 3" dia.	Length	28		
	PVC Elbow, 3" dia.	Pc	11		

Issued this 3<sup>rd</sup> day of January 2018.

THE BIDS AND AWARDS COMMITTEE:

  
**GERRY D. LIQUIDO**  
Chairman, BAC  
PPA, PMO - WLB

**TERMS OF REFERENCE**  
***(Amended)***

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF  
ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC  
TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT  
THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR  
SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA  
TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS,  
BAYBAY, NAVAL & PALOMPON**

**OBJECTIVE**

To provide generator sets at the PMO's & TMO's Offices to ensure the continuous supply of power in the areas during brown-outs/power outage from local power service provider.

**SCOPE OF WORK**

The work to be executed and completed and the equipment to be deployed by the Supplier in areas identified by the PPA, PMO-Western Leyte/ Biliran shall include the following:

1. Mobilization of manpower, materials, tools, equipment and technical supervisions.
2. Supply, installation, testing and commissioning of the brand new generator sets and all ancillary equipment required for installation and operation.
3. Supply and Installation of Cable wires from Generator sets to ATS and Main Distribution Panel.
4. Installation of appropriate safety measures at the project site.
5. Actual Load testing in every site before final acceptance.
6. Conduct at least one (1) day training for the end-user operator for operation system, commissioning and preventive maintenance procedure.

AREA OF DEPLOYMENT

Area	Power Rating	Quantity
BASEPORT ORMOC	150KVA with ATS and soundproof enclosure	1
	Transformer, 50 KVA, 3-Phase	3
TMO-MAASIN	75KVA with ATS and soundproof enclosure	1
	Transformer,75 KVA, 1-Phase	1
TMO-HILONGOS	75KVA with ATS and soundproof enclosure	1
	Transformer,75 KVA, 1-Phase	1
TMO-BAYBAY	75KVA with ATS and soundproof enclosure	1
	Transformer,75 KVA, 1-Phase	1
TMO-NAVAL	75KVA with ATS and soundproof enclosure	1
	Transformer,75 KVA, 1-Phase	1
TMO-PALOMPON	75KVA with ATS and soundproof enclosure	1
	Transformer,75 KVA, 1-Phase	1



**GENSET MINIMUM SPECIFICATIONS AND ACCESSORIES**

**1. One (1) Unit of 150kVA Generator Sets for Baseport Ormoc**

Generator Set Specification	
Number of cylinders	6
Cylinder arrangement	In-Line
Aspiration	Turbocharged after-water cooling
Prime Rating Power (kW/kVA)	109kW/136kVA
Standby Rating Power (kW/kVA)	120kW/150kVA
Control Panel	Digital
Speed governor	Electronic
Cooling system	Water Cooling Cycle
Phase	3
Rpm	1800
Volts	220V
Frequency	60hZ
Power Factor	0.8
Fuel consumption (L/H) at 100% load	Diesel – 20 L/H
Insulation	Class H
Starter motor	24V
Exciter type	Single bearing, Brushless Type

2. Five (5) Units of 75kVA Generator Sets for **TMOs of Maasin, Hilongos, Baybay, Naval & Palompon**

Generator Set Specification	
Number of cylinders	4
Cylinder arrangement	In-Line
Aspiration	Turbocharged after-water cooling
Prime Rating Power (kW/kVA)	60kW/75kVA
Standby Rating Power (kW/kVA)	66kW/83kVA
Control Panel	Digital
Speed governor	Electronic
Cooling system	Water Cooling Cycle
Phase	Single
Rpm	1500
Volts	220Vac
Frequency	50hZ
Power Factor	0.8
Fuel consumption at 100% load (L/H)	Diesel – 18.6 L/H
Insulation	Class H
Starter motor	24V
Exciter type	Single bearing, Brushless Type

## **TECHNICAL SPECIFICATIONS OF AUTOMATIC TRANSFER SWITCH**

For 150 KVA Generator Set:

- 220-480 volts, 3 phase, wall-mounted/free standing with NEMA enclosure equal to the capacity of the generator set.
- Frequency : 60 Hz
- 2 x Molded Case Circuit Breaker with motor operated switching mechanism, Busbars, timers and relays and internal wiring as required. Front fascia mounted mains on load (green)/ Generator on load (red) indicator lights

For 75KVA Generator Set:

- Rated Voltage : 220V- 240V, Single Phase
- Frequency : 60 Hz
- NEMA Enclosure all mounted with powder coating
- 2 x Molded Case Circuit Breaker with motor operated switching mechanism, Busbars, timers and relays and internal wiring as required. Front fascia mounted mains on load (green)/ Generator on load (red) indicator lights

### **Standard Accessories per Generator Set**

- Heavy duty steel fabricated base frame
- Unit mounted radiator
- Fuel, oil and air filters
- 1 set of Tool Box
- 1 set of Replacement Gasket
- 12 vdc starting system and battery charging alternator
- 12 vdc lead acid battery
- 8 hours capacity base mounted fuel tank with supply and return lines, level gauge, drain plug exhaust muffler with flexible connection
- Unit mounted auto/manual start control panel with metering voltage, current, frequency, oil pressure, water temperature, engine rpm, dc voltage, engine operating hours counter
- Engine shutdown protection against low oil pressure, high water temperature, over speed, under speed, charging system failure, over crank (failure to start)
- Duly rated circuit breaker factory wired
- Engine and alternator instruction manual

### **Soundproof/Weatherproof Enclosure**

- With lifting Gussets
- Multiple swing doors
- Powdered coat finish
- 1.5 mm thick Cold Rolled Steel
- With panel viewing glass
- Fire retardant foam insulation

## **TECHNICAL SPECIFICATIONS OF TRANSFORMER**

1. Transformer, 3-Phase, 50 KVA
2. Transformer, 1-Phase, 75 KVA



After Sales Service and Support during the warranty period, all reported defects shall be completely/satisfactorily repaired/replaced by the winning bidder/supplier within 72 hours after receipt of a verbal and/or written notice from the procuring entity.

#### OTHER TERMS AND CONDITIONS

1. Manufacturer Quality Standard : **ISO 9001 and ISO 14001.**
2. Ensure that the delivery/ies of the equipment should be checked and inspected by the PPA, PMO-WL/B authorized representative.
3. Provide Operational Manuals (schematic diagrams, maintenance checklists and schedules)
4. The bidders must inspect the PMOs & TMOs /sites indicated & must be able to provide Inspection Certificate to be attached in the technical bid documents.

#### OTHER DOCUMENTARY REQUIREMENTS

1. Certificate of ISO 9001 & 14001
2. Certificate of Origin
3. Suppliers **EXCLUSIVE/AUTHORIZED DISTRIBUTORSHIP** from the Manufacturer
4. Suppliers must have authorized **SERVICE CENTERS** in the **following REGIONS (REGION 7 & 8 )** for Quick Response of Repair & Troubleshooting
5. Warranty Certificate for One (1) year

#### Payment Terms

The payment shall be done within twenty-one (21) working days upon submission of complete documents including, delivery, installation, testing, commissioning and acceptance of the unit by the authorized/designated representatives of PPA, PMO-WL/B subject to performance security retention, if any.

**APPROVED:**

**FOR THE**

**Supply, Delivery, Installation and Commissioning of One(1) unit 150 KVA Generator Set incl. Automatic Transfer Switch and Three (3) 50 KVA Transformers at the Port of Ormoc, & Five(5) units 75 KVA Generator Sets with Automatic Transfer Switch and Five (5) 75 KVA Transformers at the Ports of Maasin, Hilongos, Baybay, Naval & Palompon**

**The Bids and Awards Committee  
(BAC)**

  
**ARVIN S. ELAGO**  
Provisional Member

  
**JUDY ANN M. SAN BUENAVENTURA**  
Member

  
**RUBY ANN D. MONTESCLAROS**  
Provisional Member

  
**LORD TYRONE L. AGATON**  
Vice-Chairperson

  
**GERRY D. LIQUIDO**  
Chairperson

**CONFORME:**

\_\_\_\_\_  
Name & Signature of Bidder's Authorized Representative

## STATEMENT OF COMPLIANCE

Bidders must state either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1(a)(ii).

Item	Specification	Statement of Compliance Bidders must state here either “Comply” or “Not Comply”
<b>1</b>	<b>Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Set</b>	
	Number of Cylinders: 6	
	Cylinder Arrangement: In-line	
	Aspiration : Turbocharged after water cooling	
	Prime Rating Power (kW/kVA): 180kW/ 135kVA	
	Standby Rating Power (kW/ kVA): 120kW/ 150kVA	
	Control Panel: Digital	
	Speed Governor: Electronic	
	Cooling System: Water Cooling Cycle	
	Phase: 3	
	Rpm: 1800	
	Volts: 220V	
	Frequency: 60hZ	
	Power Factor: 0.8	
	Fuel Consumption at 100% load (L/H): Diesel – 20L/H	
	Insulation: Class H	
	Starter Motor: 24V	
	Exciter Type: Single Bearing, Brushless Type	
<b>2;3;4; 5; &amp; 6</b>	<b>Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set</b>	
	Number of Cylinders: 4	
	Cylinder Arrangement: In-line	
	Aspiration : Turbocharged after water Cooling	
	Prime Rating Power (kW/kVA): 60kW/ 75kVA	
	Standby Rating Power (kW/ kVA): 66kW/ 83kVA	
	Control Panel: Digital	
	Speed Governor: Electronic	
	Cooling System: Water Cooling Cycle	



	Phase: 1	
	Rpm: 1500	
	Volts: 220V	
	Frequency: 50hZ	
	Power Factor: 0.8	
	Fuel Consumption at 100% load (L/H): Diesel – 18.6L/H	
	Insulation: Class H	
	Starter Motor: 24V	
	Exciter Type: Single Bearing, Brushless Type	
1.a	<b>Supply, Delivery of Installation Automatic Transfer Switch for 150 KVA Generator Set</b>	
	Volts: 220-480	
	Phase: 3	
	Frequency: 60Hz	
	NEMA enclosure: mounted with powder coating	
	2 x Molded Case Circuit Breaker with motor operated switching mechanism, busbars, timers and relays and internal wiring	
2.a; 3.a; 4.a; 5.a; & 6.a	<b>Supply, Delivery and Installation of Automatic Transfer Switch for 75 KVA Generator Set</b>	
	Volts: 220-240	
	Phase: 1	
	Frequency: 60Hz	
	NEMA enclosure: mounted with powder coating	
	2 x Molded Case Circuit Breaker with motor operated switching mechanism, busbars, timers and relays and internal wiring	
1.b	<b>Supply, Delivery and Installation of Transformer</b>	
	Phase: 3	
	Capacity: 50 KVA	
2.b; 3.b; 4.b; 5.b; & 6.b	<b>Supply, Delivery and Installation of Transformer</b>	
	Phase: 1	
	Capacity:75 KVA	

I hereby certify to comply with all the above specifications.

Name of Company/Bidder

Signature Over Printed Name of Representative

Date

Supply, Delivery, Installation and Commissioning of One(1) unit 150 KVA Generator Set incl. Automatic Transfer Switch and Transformer at the Port of Ormoc, & Five(5) units 75 KVA Generator Sets with Automatic Transfer Switch and Transformers at the Ports of Maasin, Hilongos, Baybay, Naval & Palompon



Section VI. Schedule of Requirements (Amended)

Breakdown of Materials (Minimum Requirement)					
SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY, NAVAL & PALOMPON					
Item No.	Description	Unit of Measure	Quantity	Total	Delivered, Weeks/ Months
1	Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Three (3) Phase at Baseport Ormoc	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 400mm	meter	36	36	
	Eye Terminal 400mm	pc	3	3	
	PVC Pipe, 3" dia.	length	4	4	
	PVC Elbow, 3" dia.	pc	6	6	
1.a	Supply, Delivery of Installation Automatic Transfer Switch for 150 KVA Generator Set at the Port of Ormoc	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
1.b	Supply, Delivery and Installation of Transformer 50 KVA, 3 Phase at Baseport Ormoc	lot	3	3	Two (2) months after the effectivity of Notice to Proceed (NTP)
2	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Maasin, So. Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	meter	85	85	
	PVC Pipe, 3" dia.	length	15	15	
	PVC Elbow, 3" dia.	pc	8	8	
	Panel Board 10 Branches with breakers:	set	1	1	
	- 1 pc Circuit Breaker, 400 A				
	- 2 pcs Circuit Breaker, 100 A				
	- 6 pcs Circuit Breaker, 40 A				
	Eye Terminal 200mm	pc	2	2	
	Circuit Breaker 400 A with pole box	set	1	1	
	Electrical Tape	pc	2	2	
	Rubber Tape	pc	2	2	
	Circuit Breaker 100 A	pc	4	4	
2.a	Supply, Delivery of Installation Automatic Transfer Switch for 75 KVA Generator Set at the Port of Maasin, So. Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
2.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Maasin, So. Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
3	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Hilongos, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	meter	65	65	
	PVC Pipe, 3" dia.	length	13	13	
	PVC Elbow, 3" dia.	pc	11	11	
	Circuit Breaker, 250 A	pc	1	1	
	Stranded Wire 60mm	meter	48	48	
	Eye Terminal 200mm	pc	10	10	
	Panel Board 10 Branches with breakers:	set	1	1	
	- 1 pc Circuit Breaker, 300 A				
	- 4 pcs Circuit Breaker, 100 A				
	- 3 pcs Circuit Breaker, 30 A				
	Circuit Breaker 300A with pole box	set	1	1	
3.a	Supply, Delivery & Installation of Automatic Transfer Switch for 75 KVA Generator Set at the Port of Hilongos, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
3.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Hilongos, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)



Section VI. Schedule of Requirements (Amended)

Breakdown of Materials (Minimum Requirement)					
SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY, NAVAL & PALOMPON					
Item No.	Description	Unit of Measure	Quantity	Total	Delivered, Weeks/ Months
4	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Single Phase Set at the Port of Baybay, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	meter	65	65	
	PVC Pipe, 3" dia.	length	13	13	
	PVC Elbow, 3" dia.	pc	11	11	
	Circuit Breaker, 200 A	pc	1	1	
	Stranded Wire 60mm	meter	48	48	
	Eye Terminal 200mm	pc	10	10	
	Panel Board 10 Branches with breakers:	set	1	1	
	- 1 pc Circuit Breaker, 300 A				
	- 3 pcs Circuit Breaker, 100 A				
	- 3 pcs Circuit Breaker, 30 A				
	Circuit Breaker 300A with pole box	set	1	1	
4.a	Supply, Delivery & Installation Automatic Transfer Switch for 75 KVA Generator Set at the Port of Baybay, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
4.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Baybay, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
5	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Pahse at the Port of Naval, Biliran	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	meter	65	65	
	PVC Pipe, 3" dia.	length	12	12	
	PVC Elbow, 3" dia.	pc	8	8	
	Circuit Breaker 400A with pole box	set	1	1	
	Circuit Breaker 250A with moulded case	pc	1	1	
	Eye Terminal 200mm	pc	2	2	
	Circuit Breaker 100A (bolt on)	pc	1	1	
	Solderless connector	pc	2	2	
	Stranded Wire 150mm	meter	4	4	
	Stranded Wire 14mm	meter	12	12	
	Electrical Tape	pc	3	3	
	Rubber Tape	pc	3	3	
5.a	Supply, Delivery of Installation Automatic Transfer Switch for 75 KVA Generator Set at the Port of Naval, Biliran	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
5.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Naval, Biliran	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)

Section VI. Schedule of Requirements (Amended)

Breakdown of Materials (Minimum Requirement)					
SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY, NAVAL & PALOMPON					
Item No.	Description	Unit of Measure	Quantity	Total	Delivered, Weeks/ Months
6	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Palompon, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
	Stranded Wire 200mm	meter	182	182	
	PVC Pipe, 3" dia.	length	28	28	
	PVC Elbow, 3" dia.	pc	11	11	
	Eye Terminal 200mm	pc	2	2	
	Circuit Breaker 300A with pole box	set	1	1	
	Panel Board 10 Branched	pc	1	1	
	Circuit Breaker 300A	pc	1	1	
	Circuit Breaker 100A	pc	2	2	
	Circuit Breaker 400A	pc	2	2	
	Circuit Breaker 30A	pc	2	2	
	Circuit Breaker 20A	pc	2	2	
	Circuit Breaker 15A	pc	2	2	
6.a	Supply, Delivery & Installation of Automatic Transfer Switch for 75 KVA Generator Set at the Port of Palompon, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)
6.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Palompon, Leyte	lot	1	1	Two (2) months after the effectivity of Notice to Proceed (NTP)

I hereby certify to comply and deliver all of the above minimum requirements

Name of Company

Printed and Signature of Authorized Representative



BILL OF QUANTITIES (AMENDED)					
SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY, NAVAL & PALOMPON					
Item No.	Description	Unit of Measure	Quantity	Unit Cost	Total
1	Supply, Delivery, Installation, Testing and Commissioning of 150 KVA Generator Three (3) Phase at Baseport Ormoc	lot	1		
	Stranded Wire 400mm	meter	36		
	Eye Terminal 400mm	pc	3		
	PVC Pipe, 3" dia.	length	4		
	PVC Elbow, 3" dia.	pc	6		
1.a	Supply, Delivery of Installation Automatic Transfer Switch for 150 KVA Generator Set at the Port of Ormoc	lot	1		
1.b	Supply, Delivery and Installation of Transformer 50 KVA, 3 Phase at Baseport Ormoc	lot	3		
2	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Maasin, So. Leyte	lot	1		
	Stranded Wire 200mm	meter	85		
	PVC Pipe, 3" dia.	length	15		
	PVC Elbow, 3" dia.	pc	8		
	Panel Board 10 Branches with breakers:	set	1		
	- 1 pc Circuit Breaker, 400 A				
	- 2 pcs Circuit Breaker, 100 A				
	- 6 pcs Circuit Breaker, 40 A				
	Eye Terminal 200mm	pc	2		
	Circuit Breaker 400 A with pole box	set	1		
	Electrical Tape	pc	2		
	Rubber Tape	pc	2		
	Circuit Breaker 100 A	pc	4		
2.a	Supply, Delivery of Installation Automatic Transfer Switch for 75 KVA Generator Set at the Port of Maasin, So. Leyte	lot	1		
2.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Maasin, So. Leyte	lot	1		
3	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Hilongos, Leyte	lot	1		
	Stranded Wire 200mm	meter	65		
	PVC Pipe, 3" dia.	length	13		
	PVC Elbow, 3" dia.	pc	11		
	Circuit Breaker, 250 A	pc	1		
	Stranded Wire 60mm	meter	48		
	Eye Terminal 200mm	pc	10		
	Panel Board 10 Branches with breakers:	set	1		
	- 1 pc Circuit Breaker, 300 A				
	- 4 pcs Circuit Breaker, 100 A				
	- 3 pcs Circuit Breaker, 30 A				
	Circuit Breaker 300A with pole box	set	1		
3.a	Supply, Delivery & Installation of Automatic Transfer Switch for 75 KVA Generator Set at the Port of Hilongos, Leyte	lot	1		
3.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Hilongos, Leyte	lot	1		



BILL OF QUANTITIES (AMENDED)					
SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY, NAVAL & PALOMPON					
Item No.	Description	Unit of Measure	Quantity	Unit Cost	Total
4	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Single Phase Set at the Port of Baybay, Leyte	lot	1		
	Stranded Wire 200mm	meter	65		
	PVC Pipe, 3" dia.	length	13		
	PVC Elbow, 3" dia.	pc	11		
	Circuit Breaker, 200 A	pc	1		
	Stranded Wire 60mm	meter	48		
	Eye Terminal 200mm	pc	10		
	Panel Board 10 Branches with breakers:	set	1		
	- 1 pc Circuit Breaker, 300 A				
	- 3 pcs Circuit Breaker, 100 A				
	- 3 pcs Circuit Breaker, 30 A				
	Circuit Breaker 300A with pole box	set	1		
4.a	Supply, Delivery & Installation Automatic Transfer Switch for 75 KVA Generator Set at the Port of Baybay, Leyte	lot	1		
4.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Baybay, Leyte	lot	1		
5	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Pahse at the Port of Naval, Biliran	lot	1		
	Stranded Wire 200mm	meter	65		
	PVC Pipe, 3" dia.	length	12		
	PVC Elbow, 3" dia.	pc	8		
	Circuit Breaker 400A with pole box	set	1		
	Circuit Breaker 250A with moulded case	pc	1		
	Eye Terminal 200mm	pc	2		
	Circuit Breaker 100A (bolt on)	pc	1		
	Solderless connector	pc	2		
	Stranded Wire 150mm	meter	4		
	Stranded Wire 14mm	meter	12		
	Electrical Tape	pc	3		
	Rubber Tape	pc	3		
5.a	Supply, Delivery of Installation Automatic Transfer Switch for 75 KVA Generator Set at the Port of Naval, Biliran	lot	1		
5.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Naval, Biliran	lot	1		

BILL OF QUANTITIES (AMENDED)					
SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE(1) UNIT 150 KVA GENERATOR SET INCL. AUTOMATIC TRANSFER SWITCH AND THREE (3) 50 KVA TRANSFORMERS AT THE PORT OF ORMOC, & FIVE(5) UNITS 75 KVA GENERATOR SETS WITH AUTOMATIC TRANSFER SWITCH AND FIVE (5) 75 KVA TRANSFORMERS AT THE PORTS OF MAASIN, HILONGOS, BAYBAY, NAVAL & PALOMPON					
Item No.	Description	Unit of Measure	Quantity	Unit Cost	Total
6	Supply, Delivery, Installation, Testing and Commissioning of 75 KVA Generator Set Single Phase at the Port of Palompon, Leyte	lot	1		
	Stranded Wire 200mm	meter	182		
	PVC Pipe, 3" dia.	length	28		
	PVC Elbow, 3" dia.	pc	11		
	Eye Terminal 200mm	pc	2		
	Circuit Breaker 300A with pole box	set	1		
	Panel Board 10 Branched	pc	1		
	Circuit Breaker 300A	pc	1		
	Circuit Breaker 100A	pc	2		
	Circuit Breaker 400A	pc	2		
	Circuit Breaker 30A	pc	2		
	Circuit Breaker 20A	pc	2		
	Circuit Breaker 15A	pc	2		
6.a	Supply, Delivery & Installation of Automatic Transfer Switch for 75 KVA Generator Set at the Port of Palompon, Leyte	lot	1		
6.b	Supply, Delivery and Installation of Transformer 75KVA, Single Phase at the Port of Palompon, Leyte	lot	1		

I hereby certify to comply and deliver all of the above minimum requirements

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Printed and Signature of Authorized Representative