

## Section VI - Technical Specifications

### Part I - Technical Specifications

#### TABLE OF CONTENTS

<u>CLAUSE NO.</u>	<u>TITLE</u>	<u>PAGE NO.</u>
TS-1.0	GENERAL .....	1
TS-2.0	SCOPE OF WORKS.....	1
TS-3.0	DELIVERY PERIOD AND LOCATION.....	1
TS-4.0	ACCEPTANCE CRITERIA .....	2
TS-5.0	DRAWINGS AND DOCUMENTS TO BE SUBMITTED.....	3
TS-6.0	GUARANTEE.....	4

## Section VI - Technical Specifications

### Part I - Technical Specifications

#### TS-1.0 GENERAL

This specification covers the features and technical requirements for the **SUPPLY AND DELIVERY OF MECHANICAL SPARE PARTS FOR 200 KW CUMMINS GENSET ENGINE NO. 78545494 AND 300 KW CUMMINS GENSET ENGINE NO. 41235574 OF SEN. NINOY AQUINO DPP.**

All supplied spare parts shall be new and unused. They shall be suitable for the intended purpose and shall comply with all applicable regulations, quality, and dimension standards.

The Supplier shall accept full responsibility for his work including documentation, preparation for shipment, inspection, warranty provisions and compliance with the applicable codes and standards and the requirements of this Specification.

#### TS-2.0 SCOPE OF WORKS

The scope of work shall cover the **SUPPLY AND DELIVERY OF MECHANICAL SPARE PARTS FOR 200 KW CUMMINS GENSET ENGINE NO. 78545494 AND 300 KW CUMMINS GENSET ENGINE NO. 41235574 OF SEN. NINOY AQUINO DPP.**

#### Schedule of Requirements of Spare Parts

ITEM	DESCRIPTION	PART NO.	QTY.	
	SUPPLY AND DELIVERY OF MECHANICAL SPARE PARTS FOR 200 KW CUMMINS GENSET ENGINE NO. 78545494 AND 300 KW CUMMINS GENSET ENGINE NO. 41235574 OF SEN. NINOY AQUINO DPP.		1	LOT
1	FAN ADAPTOR AND ACCESSORIES INCLUDING BEARING ,200 KW CUMMINS	C3415603	2	PC
2	FUEL INJECTOR ASSEMBLY,200 KW CUMMINS	C3975929	12	ASSY
3	FUEL INJECTOR NOZZLE TIP,200 KW CUMMINS	6LTAA	24	PC
4	OIL PUMP,200 KW CUMMINS	C4941464	2	UNIT
5	REPAIR KIT TURBO,200 KW CUMMINS	HX 6LTAA	2	KIT

6	GASKET TOP OVERHAULING MODEL 4BTA3.9-G2,ENGINE NO. 6944602	6L	2	PC
7	WATER PUMP,200 KW CUMMINS	C4934058	1	PC
8	FAN ADAPTOR AND ACCESSORIES INCLUDING BEARING , 300 KW CUMMINS	3002233	2	PC
9	FAN BELT , 300 KW CUMMINS	3002203	6	PC
10	EXHAUST MANIFOLD BELLOW 300 KW CUMMINS		2	PC
11	REPAIR KIT TURBO, 300 KW CUMMINS	3803257	1	KIT
12	TURBO ASSEMBLY,300 KW CUMMINS		1	UNIT
13	LUBE OIL PUMP ASSEMBLY,300 KW CUMMINS	382579	2	ASSY
14	FUEL INJECTOR ASSEMBLY,300 KW CUMMINS	3016676	6	ASSY
15	TOP OVERHAULING KIT, 300 KW CUMMINS	4295803-10	2	PC

**TS-3.0 DELIVERY PERIOD AND LOCATION**

The delivery period shall be **NINETY (90) CALENDAR DAYS** reckoned from receipt of Notice to Proceed.

The spare parts shall be delivered to **NATIONAL POWER CORPORATION, AFD WAREHOUSE, DAVAO CITY.**

The Supplier shall be responsible for visiting the site and take particular reference to its accessibility, means of communication and transportation, and all other factors that could hamper the smooth execution of the contract.

Any and/or all expenses arising through the lack of knowledge or understanding regarding the existing conditions of the site shall be the responsibility of the Supplier and no additional payment thereof shall be made by NPC.

**TS-4.0 ACCEPTANCE CRITERIA**

The Supplier shall perform at his own expense all inspection required to ensure adequacy of design, material, workmanship and conformance of the supplied spare parts to the requirements of the specifications and standards.

Necessary inspections at the place of delivery shall also be conducted with the presence of NPC representative.

Upon arrival of spare parts at delivery site, NPC and the Supplier or their authorized representatives, shall jointly verify the spare parts following the steps below:

- a. Inspection and verification of the packing list;
- b. Visual inspection of the condition of the packing and its surfaces; and
- c. Partial opening of the crates and plastic sheet protection of spare parts to verify the content and its physical condition and to check pilferage or damage during shipment and storage.

A record shall be prepared carefully noting all eventual shortages, defects or damages, signed by the Supplier and concurred by NPC. All shortages and damages noted shall be immediately replaced by the Supplier at his own cost and shall ensure the timely delivery of replacement without affecting the agreed overall contract implementation schedule.

Acceptance certificate shall be issued only after all the required inspection and verification are satisfactorily conducted and performed.

If any spare part fails to pass the inspection, NPC may at his own judgment, direct the Supplier to replace the spare parts.

#### **TS-5.0 DRAWINGS AND DOCUMENTS TO BE SUBMITTED**

- a. To be submitted with the bid

- a.1 Completely filled-out Technical Data Sheets.

- a.2 Authorization to bid from any of the following:

- a.2.1 Original Equipment Manufacturer (OEM).

- a.2.2 Authorized Manufacturer/ Integrator/ Assembler of OEM Parts with corresponding Authorization Letter from the OEM to manufacture the OEM parts;

- a.2.3 Licensee of the OEM with corresponding License issued by the OEM;

- a.2.4 Distributor/Dealer, a Certificate of Authorized Distributorship/Dealership from the OEM or Authorized Manufacturer of OEM Parts or Licensee of the OEM. In case the Certificate of Authorized Distributorship / Dealership is issued by the Authorized Manufacturer of OEM Parts or Licensee of the OEM, it should be accompanied with corresponding Authorization Letter from the OEM per item (a.2.2) above.

(The authority can be acquired from OEM, Manufacturer of OEM Parts or Licensee of the OEM.)

b. To be submitted before/ during delivery of spare parts

b.1 “Certificate of Origin” from the Manufacturer.

b.2 “Warranty” Certificate for one (1) year against factory defects/workmanship.

#### **TS-6.0 GUARANTEE**

The Supplier shall guarantee the replacement of the supplied spare parts at his own expense against defect in design, workmanship and materials for a period of one (1) year after acceptance by NPC.

The Supplier shall submit a Warranty Certificate (at least 1 year) effective from the date of acceptance by NPC.