

Section VI - Technical Specifications

Part I - Technical Specifications

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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 VARIOUS ELECTRICAL SPARE PARTS FOR PERKINS & CUMMINS GENERATOR SETS OF TANDUBANAK 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 VARIOUS ELECTRICAL SPARE PARTS FOR PERKINS & CUMMINS GENERATOR SETS OF TANDUBANAK DPP.**

Schedule of Requirements of Spare Parts

Engine Model No. : 300KW PERKINS 2206C-E13TAG2, 160KW FG WILSON PERKINS 1606A-E92TAG4, 275 KW CUMMINS NTA855-G1B & 160KW CUMMINS 6CTA8.3-G2 (LOT AWARD)

ITEM	DESCRIPTION	PART NO.	QTY.	
1	MOTOR, STARTER, ASSY (DC MOTOR) for 160 KW Cummins Model 6CTA8.3-G2	C3415537	2	UNIT
2	MOTOR, STARTER for 300KW TPI Perkins Model 2206C-E13TAG2	CH12807	1	UNIT
3	STARTER MOTOR for 160 KW FG Wilson 160KW Model 1606A-E92TAG4	10000-00378	1	ASSY
4	CURRENT TRANSFORMER, Donut Type, 300/5A, 600VAC, 50/60 Hz for 160 KW Cummins Model 6CTA8.3-		4	PC

ITEM	DESCRIPTION	PART NO.	QTY.	
	G2			
5	DIODE, Rotating Assembly with Varistor & Diode, Fitted in 160 KW Cummins Model 6CTA8.3-G2	MXG(II/S)100-12, MXY(II/S)100-12	3	PC
6	KIT, AIR PRESSURE SENSOR for 160KW FG Wilson Model 1606A-E92TAG4	10000-60273	2	KIT
7	MAGNETIC PICK-UP for 160KW FG Wilson Model 1606A-E92TAG4	10000-05402	3	PC
8	OIL PRESSURE SENSOR for 160 KW FG Wilson Model 1606A-E92TAG4	10000-60267	2	PC
9	PICK-UP MAGNETIC for 275 KW Cummins Model NTA855-G1B	3034572	2	PC
10	POTENTIOMETER, Speed Trim for 275 KW Cummins Model NTA855-G1B, Speed Trim 2K-5K	3015105	10	PC
11	POTENTIOMETER, Volt Trim for 275 KW Cummins Model NTA855-G1B	3015235	10	PC
12	SURGE SUPPRESSOR for 160 KW FG Wilson Model 1606A-E92TAG4	954-131	2	PC
13	SENSOR, WATER TEMPERATURE GAUGE for 275 KW Cummins Model NTA855-G1B	3015233	8	PC
14	SWITCH OIL PRESSURE SENDER for 160 KW Cummins Model 6CTA8.3-G2	3846N06	8	PC
15	TEMPERATURE AIR SENSOR for 160 KW FG Wilson Perkins Model 1606A-E92TAG4	10000-60271	3	PC
16	TEMPERATURE WATER SENSOR for 160 KW FG Wilson 1606A-E92TAG4	10000-60313	2	PC

ITEM	DESCRIPTION	PART NO.	QTY.	
17	CIRCUIT BREAKER 400 Amps, 3 Phase, 480 VAC, 60 Hz, Moulded Type with Mechanism with four (4) auxiliary switch, four (4) Terminal Extender & Shunt Trip, 24 VDC	NSX400-630 F/N/H/NA	1	ASSY
18	CURRENT TRANSFORMER, DOUGH NUT TYPE, 600/5A, 600 VAC, 50/60 Hz	10000-61133	4	PC
19	ALTERNATOR for 160 KW Cummins Model 6CTA8.3-G2	3920679 / 3415691	2	UNIT
20	ALTERNATOR for 275 KW Cummins Model NTA855-G1B	3016627	1	UNIT
21	OIL PRESSURE TRANSDUCER for 275 KW Cummins Model NTA855-G1B	3015237	2	PC

TS-3.0 DELIVERY PERIOD AND LOCATION

The delivery period shall be **Sixty (60) CALENDAR DAYS** reckoned from receipt of Notice to Proceed.

The spare parts shall be delivered to **National Power Corporation, Gov.Camins Extension, Zamboanga 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.