

October 07, 2021

S11 Ref.: WO/GeR/GenSet(7740)/026

**CROSS WORLD POWER LTD**

Plot 1/B, Road 90, Gulshan – 2

Dhaka 1212, Bangladesh

Attention: Md. Sohel Uddin Bhuiya, Manager, Sales & Marketing, Mobile: 01755 514 780

**Subject: Work order for supply, installation, testing & commissioning of 250 kVA 3 phase heavy duty diesel generating set for 3B+G+12 storied residential building "POHELA BOISHAKH" at Plot 05, Road 25, Block A, Banani, Dhaka.**

Dear Sir,

With reference to your price offer and subsequent revised offer ref. CWPL-AM/2326/21F & 21T, Oct 06, 2021 and negotiation made with you regarding the above subjected matter, we are pleased to place our Work Order according to the following terms & conditions:

**1. PRICE**

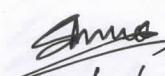
SL	Product Name	Unit	Qty.	Total Price(BDT)
1)	TEMPEST Brand 250 KVA (Prime) Rating Diesel Generator	Set	1.00	2,800,000.00
	with Perkins engine and Leroy-Somer alternator			
	BRAND : Tempest			
	ENGINE : Perkins, UK			
	ALTERNATOR : Leroy Somer,			
	CONTROL MODULE : Deepsea, UK			
	PORT OF SHIPMENT : Felixstowe port, UK			
	AVAILABILITY : 5 to 15 days from			
2)	Local Canopy for 250 KVA Generator	Pcs	1.00	250,000.00
3)	Local Auto Transfer Switch (ATS) for 250 KVA Genset	Pcs	1.00	150,000.00
	Total Price in BDT=			3,200,000.00
	Special Discount=			375,000.00
	<b>Grand Total (Excluding VAT &amp; AIT)=</b>			<b>2,825,000.00</b>
Two Million Eight Hundred Twenty Five Thousand Takas Only				

**2. PAYMENT TERMS:** 10% as non-refundable booking fee with work order and 90% before delivery.

**3. PACKING:** Export friendly 'Shrink Wrap' packing.

**4. DELIVERY:** Within 30 days from the date of issuing work order.

**5. COMPLETION OF THE WORK:** Installation Commissioning and testing of the genset would be completed within 3 (three) working days from the date of delivery, provided the site and commissioning materials made ready by the client.

  
07/10/2021




**SIGNATURE II**

H 106, R 25, Block A, Banani  
Dhaka 1213, Bangladesh  
08 550 3586, 02 550 35857

**6. SUPPLY & INSTALLATION OF AUXILIARY MATERIALS:** Supplier should submit the list of auxiliary materials necessary for commissioning & testing of Generator well prior to the Client & should provide technical guidance to Client's workers for installation of those materials as per manufacturer standard.

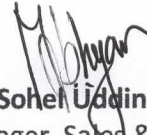
We request you to expedite the matter as top priority basis.

Thanking you,




**Md. Golam Mostofa**  
Director  
Signature11 Ltd.

Accepted by:



**Md. Sohel Uddin Bhuiya**  
Manager, Sales & Marketing  
For, Cross World Power Ltd

Enclose: Technical Specifications - 03 pages



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## TECHNICAL SPECIFICATIONS

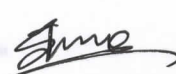

<b>Generator Details:</b>	
Tempest (Manufactured by Allam Marine Limited, UK) Diesel Generatng Set Model: PL250# (250KVA Prime & 275 KVA Standby) at 1500 rpm, 50 Hz, 3 phase, 4 wire, 400/230 volts at 0.8 power factor. All other details are as follows:	
BRAND : Tempest	MODEL : PL250#
COUNTRY OF ORIGIN : UK	PORT OF SHIPMENT : Any Port, UK
CAPACITY (Prime) : 250 KVA	CAPACITY (stand by): 275 KVA
START SYSTEM : Automatic Microcontroller based as well manual Start / Stop System	
EMERGENCY STOP : Emergency Stop available as protection device	
VIBRATION SKID : Built-in vibration skid for smooth operation	
BATTERY CHARGER : Auto Battery Charger (ABC) included	
DIMENSION (Open Set) (cm) : TBA (LxWxH)	FUEL TANK CAPACITY : 609 (Open) & 500 (Canopied) Liter
FUEL CONSUMPTION : 41.00 Ltr./Hr. at 75% Load	
<b>Engine Details:</b>	
BRAND/ORIGIN : Perkins, UK	MODEL : 1206A-E70TTAG3
SPEED : 1500 RPM	INDUCTION SYSTEM : Turbocharged
ENGINE TYPE : 4 stroke multi cylinder industrial diesel Engine suitable for tropical environment	
COOLING SYSTEM : Water cooled (Radiator cooled with engine driven fan)	
PROTECTION : Over speed, under speed, oil pressure, Over heating etc	
FUEL TANK : Built in with base	
All other details are as per Engine catalogues.	

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<b>Alternator Details :</b>	
Industrial brushless AC Alternator model all other details are as follows:	
BRAND/ORIGIN : Leroy Somer, France	Model / Frequency : TAL 046 D , 50 Hz
PHASE : 3 Phase	Output (Volts) : 400/415 volts (Line to line)
COOLING : Air cooling	Insulation Type : Class " H "
PROTECTION : Industrial brushless design screen protected, fan ventilated, drip-proof, self exciting in accordance with IP21/IP23	
VOLTAGE REGULATOR : Automatic Voltage Regulator (AVR)	
VOLTAGE REGULATION : $\pm 1\%$ / $\pm 1.5\%$ power factor between 0.8 lagging & unity (Depends on Connected Load)	
Alternator model may vary with the attached catalogues for manufacturing innovation.	
<b>Control Module:</b> Deep Sea Electronics (DSE), UK control system is incorporated with automatic set to manually & automatically start & stop the generator indicating the operation status and fault conditions via a graphical LCD display and a flashing LED on the front panel. All other details are as follows:	
CONTROL MODULE TYPE OPERATION  DIGITAL INSTRUMENTS  ALARM INDICATOR  LOAD TRANSFER TIME ENGINE COOLING TIME PHASE FAILURE RELAY	Auto start (AMF) digital control module Operation of the module is via push buttons mounted on the front panel with STOP, AUTO and MANUAL positions etc Ammeter, Voltmeter, Frequency meter, run hour meter, Oil Pressure, Water Temperature etc. Under/Over Volts, Under/over speed, Under/Over Frequency, Low Oil Pressure, High Engine Temperature, Fail to Start and Loss of speed sensing etc. Adjustable, Delay on start 1 to 25 sec, Delay on transfer 1 to 70 sec 5 minutes maximum Digital option & control for Main's upper lower cut off voltage setting and adjustable hysteresis voltage, sensing option etc. All other details are as per Allam's/DSE Catalogue

  
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**Automatic Transfer Switch:**

Local built ATS will be supplied in a suitable steel enclosure wall mounted / floor mounted, fuses, indicators etc with relevant accessories.

Interlocking	: Electrical
Magnetic Contactor / Breakers	: 3 Pole
Brand of Breaker	: ABB or Equivalent
Paint	: Powder Coated

**Acoustic Canopy:**

Local built Acoustic Enclosure will reduce the sound level to 75 dBA @ 3 meter in open space and is complete with:

Air inlet and outlet options at the alternator and radiator ends respectively.

Hinged access doors on either side with proper locking option.

Silencer.

Cable entry gland apertures.

**Standard Items:**

The following items will be supplied with the gen-set as standard:

- (i) Lead Acid Battery 12/ 24 Volts as required
- (ii) Silencer
- (iii) Rubber anti vibration mountings
- (iv) Flexible Bellows
- (v) Battery charger
- (vi) Main Line 3 pole Circuit Breaker
- (vii) Alternator mounted Deep Sea UK original main controlling panel
- (viii) Fuel tank for 10 hours operation

Toolbox is beyond this scope of supply.

**Warranty/Guarantee:**

As per standard of manufacturer warranty, 18 month from the date of Delivery or 12 month / 1500

Hours from the date of commissioning whichever comes first (Except Battery, Battery have 1 year warranty effective from the date of delivery at the client's premise). Warranty policy is for any manufacturing defects or any premature wear & tear due to usage. The faulty part(s) is/are replaced/repared within the warranty period.

However, Warranty doesn't cover improper maintenance by the user, consumable items, servicing by unauthorized person, running the genset above it's capacity or any unauthorized modification of the genset.

**Installation & Commissioning:**

The price quoted here includes Carrying, Loading, Unloading, Installation & Commissioning charge provided the genset is installed at Ground Floor level. However, this offer does not include the cost of commissioning materials, such as, Power/Control Cable, Lube Oil, Coolant, Diesel, Civil works, Ducting, Manual labor, Silencer pipe Extension Work & any other materials that may be necessary for installation of the generator set.

**Contact:**

Cross World Group Service Engineers will supervise all the above mentioned works.

Contact: Manager, Commissioning Dept. Mob. 01755 514793 for Installation Materials list or Commissioning, or  
Emergency Service Contact: Manager, Service Spare Sales Dept. Mob. 01755 514820

**Spare parts, After Sales Service & AMC:**

After completion of warranty period, supplier can extend support for servicing of the generating sets at a reasonable charge by entering into a service agreement with the client. Service engineers will always be kept ready 24x7 to attend emergency services to ensure uninterrupted power of the gen-sets. On-call service is also available to attend any types of emergencies.

**Training:**

Supplier will provide training to assigned person by the client/ operator of the Generating set after completion of commissioning.

