



# POWER UNIT ENGINEERS

Date: 29/03/2016

To  
The Manager Sales & Marketing  
Cross World Power Ltd.  
House no. 06, Road no. 92,  
Gulshan, Dhaka

**Sub: Work order for supply and installation of 60KVA (Prime) , 50 Hz. Tempest brand UK Generator.**

**Attn.: Raju Ahmmmed, Engineer**

**Dear Sir,**

We have accepted your quotation Ref. No. CWPL-AM/0255/16-R01 for above mentioned generator set. We place order to your company supply and installation 60KVA Generator set as per terms and condition. Our project address: house no. 185, Lane 2, DOHS Mohakhali, Dhaka. You will cooperate with our technical manager for supply and installation smoothly on or before 7 May 2016.

## **Terms & Condition:**

### **A. PRICE:**

Sl. No.	Product Name Price(BDT)	Unit	Price (BDT)	Qty	Total
1)	TEMPEST Brand 60 KVA (Prime) Rating Diesel Generator with Perking engine and Mecc-Alte Alternator BRAND : Tempest ENGINE : Perking, UK ALTERNATOR : Mecc Alte, UK CONTROL MODULE : Deepsea, UK	Set	980,000.00	1	980,000.00
2)	Foreign Canopy for 60 KVA Genset	Pcs.	185,000.00	1	180,000.00

**Total work order amount Tk. 11,60,000.00**

**(Total work order value taka eleven lac sixty thousand)**

### **B. PAYMENT SCHEDULE:**

- a) Tk 150,000.00 will be paid along with the work order.
- b) Tk.810,000.00 will be paid at the time delivery.
- c) Tk.200,000.00 will be paid after installation.

Sincerely Yours

Engr. Abdullah Al Mamun  
Proprietor & CEO





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## Technical Terms & condition.

### Generator Technical:

BRAND	: Tempest	MODEL	: PM60
COUNTRY OF ORIGIN	: UK	PORT OF SHIPMENT	: UK
CAPACITY (Prime)	: 60 KVA	CAPACITY (stand by)	: 66KVA

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

### Engine Technical:

BRAND / ORIGIN	: Perkins, UK	MODEL	: 1103A-33TG2
SPEED	: 1500 RPM	INDUCTION SYSTEM	: Turbocharged

ENGINE TYPE : 4 stroke multi cylinder industrial diesel Engine.  
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

### Alternator Technical :

Industrial brushless AC Alternator:

BRAND / ORIGIN	: Mecc Alte, UK	Model/ Frequency	: ECO32-2L/4, 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 REGULATION :  $\pm 1\%$  /  $\pm 1.5\%$  POWER FACTOR BETWEEN 0.8 LAGGING & unity

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## Control Module:

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. CONREOL MODULE TYPE

CONTROL MODULE TYPE	: Auto start (AMF) digital control module
OPERATION	: Operation of the module is via push buttons mounted on the front panel with STOP, AUTO and MANUAL positions etc
DIGITAL INSTRUMENTS	: Ammeter, Voltmeter, Frequency meter, run hour meter, Oil Pressure, Water Temperature etc.
ALARM INDICATOR pressure.	: Under/ Over Volts, Under/ Over speed, Under/ Over Frequency, Low Oil

Sincerely Yours

Engr. Abdullah Al Mamun  
Proprietor & CEO

