

**Work Order**

December 19, 2016

WO # SZ/Thikana-2A/Proc/84

MPR # 10486

**The Managing Director**

Cross World Power Limited

House # 06, Road # 92, Gulshan-02, Dhaka-1212

Phone: 8811858, 8816528

Attn : Md. Sohel Uddin Bhuiyan  
 Manager, Sales & Marketing  
 Cell No: 01755514780

**Sub : Work Order for Supply, Installation & Commissining of 275 KVA Standby, 250 KVA Prime (01 Unit) Diesel Generator set with local sound attenuated body Canopy & Local made ATS at Simpletree Thikana 2A (Plot # 2A, Rd # 138, Gulshan-01, Dhaka-1212)**

Dear Sir,

In accordance with above subject, subsequent quotation dated October 24,2016 & negotiation made with you regarding the subjected matter, we are pleased to issue the work order against supply of 01 (One) unit Generator set with local body Canopy & Local made ATS at Simpletree Thikana 2A (Plot # 2A, Rd # 138, Gulshan-01, Dhaka-1212, as per the following rate, specification, terms & conditions.

SL	Name of Item & Specifications	Unit	Qty	Unit Price (Tk.)	Amount (Tk.)
01	275 KVA Standby/250 KVA Prime Diesel Generator Set with Local body Canopy & Local made ATS	Set	01	2,700,000.00	2,700,000.00
<b>Total Amount in (Tk.)</b>					<b>2,700,000.00</b>

(Amount In Word: Taka Twenty Seven Lac Only)

19.12.16  
 Rec. 1.1.17

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### Technical Specification:

#### **A. Equipment**

1	Manufacturer	: Allam Marine Limited, UK
2	Brand	: Tempest
3	Model	: PM 250
4	Country of Origin	: UK
5	Country of Assembled	: UK
6	Port of Shipment	: Felixstowe, UK
7	Power-Prime	: 250 KVA
8	Power-Stand by	: 275 KVA
9	Phase	: 3-Phase
10	Fuel Consumption at 75% Load (Ltr/hr)	: 42
11	Fuel Tank Capacity (Ltr.)	: 435
12	Net Weight of Open Set in Dry Mess (Kg)	: 3200
13	Dimension of Open Set (Length x Width x Height) (mm)	: 2650 x 1110 x 1810

#### **B. Engine**

1	Brand	: Perkins
2	Model	: 1506A-E88TAG3
3	Country of Origin	: USA
4	Rated Frequency	: 50 HZ
5	Speed	: 1500
6	Break Horse Power(BHP)	: 298 HP
7	Governor Type/Class	: Electronic
8	Number and Disposition of Cylinder	: 6 /in line
9	Cooling Method	: Water Cooled

#### **C. Alternator**

1	Brand	: Mecc Alte
2	Country of Origin	: UK
3	Model	: ECO38-1LN
4	Type	: Brushless
5	Ingress Protection Rating	: IP21/IP23
6	Cooling	: Air Cooled
7	Stator/rotator insulation Type	: Class H
8	Power Factor	: 0.8
9	Voltage	: 400/415
10	Voltage Regulator	: AVR

#### **D. Control Panel:**

1	Name of Brand	: Deep sea, UK
2	Module Type	: Auto Start/ Digital Control



- 3 Display Type : LCD Display with backlight off/Auto/test
- 4 Operation : Operation of the module is via push buttons mounted on the front panel with STOP,AUTO and MANUAL positions etc.
- 5 Digital Instruments : Ammeter, Voltmeter,Frequency meter, run hour meter, Oil Pressure, Water temperature etc.
- 6 Alarm Indicator : Under/Over Volts, Under/over Speed, under/Over frequency, Low oil Pressure, High Engine temperature, Fail to Start and loss of speed sensing etc.
- 7 Load Transfer Time : Adjustable, delay on start 1 to 5 seconds. Delay on transfer 4 to 7 seconds.
- 8 Engine Cooling Time : 5 minutes maximum
- 9 Phase Failure Relay : Digital option & control for main's upper lower cut off voltage setting and adjustable hysteresis voltage, sensing option etc.

**E. Canopy:**

- 1 Origin : Local
- 2 Noise Level : 85 dB(A) @1m distance
- 3 Dimension -Length x Width X Height(mm) : 3912 x 1549 x 2311
- 4 Paint : Powder coated

**F. Automatic Transfer Switch (ATS)**

- 1 Power : 500 Amp
- 2 Origin : Cross World Made
- 3 Interlocking : Electrical as well as mechanical
- 4 Magnetic Contactor : 3 pole, ABB, Italy
- 5 Paint : Powder coated

**Terms & Condition:**

- 01 **Material:** All goods/ service are to be supplied according to the description / specification given in the work order & bidders quotation (Ref: offer date October 24, 2016) No discrepancy is acceptable without prior agreement / consent in writing.
- 02 **Installation & Commissioning:** The price quoted included the carrying, loading, unloading, installation, supervision & commissioning but excluded the civil works like manual labor. Also excluding material cost such as power/control cable, ducting, cabling, earthing, extension pipe for silencer, Lube oil, coolant etc.

- 03 **Standard items supplied with the Genset:** The vendors will be supplied the materials with gen-set as standard which are: Lead acid Battery 12/24 volts as required, Silencer, Rubber anti vibration mountings, flexible belows, Battery charger, Main line 3 pole Circuit Breaker, Alternator mount deep sea UK original main controlling panel, fuel tank for 10 hours operation, Operational manual & keys etc.
- 04 **Transit Risk:** The supplier will bear full responsibility for carrying of materials and all costs expenses such as loading, unloading and transportation from Dhaka to the mentioned site shall be on account of the supplier's. Any damage of the goods in transit will be supplier's responsibility.
- 05 **Termination:** Spacezero Ltd. reserves the right to reject merchandise if the supplier failed to execute the contract within the stipulated time and as per specification. If the supplier fails to meet above terms and conditions, Spacezero Ltd. has every right to impose penalty against the supplier.
- 06 **Provide Country of Origin Certificate & Shop Drawing:** The vendors must be provide country of origin certificate. The supplier must submit shop drawing of ATS Panel, Generator layout etc. for client's approval.
- 07 **Mode of Payment:** Tk. 10,00,000.00 will be paid as an advance within 7 days of work order. Tk. 10,00,000.00 will be paid upon delivery at site. Remaining balance will be paid after successful installation, testing & commissioning of Generator.
- 08 **Vat & AIT:** Excluding.
- 09 **Delivery:** Material has to be supplied at site on or before **December 31, 2016.**
- 10 **Warranty/Guarantee:** 1500 hours or 24 Months warranty whichever comes first effective from the date of delivery at the client's premises. Warranty policy is covered for any manufacturing defets or any premature wear & tear due to usage. The faulty part(s) is/are replaced/repared within the warranty period.
- 11 **Servicing :** After sales service is free for 24 months from the commissioning date without consumables item (Filters, Lube oil etc.) First servicing after 150-200 hours, Second servicing after 200/300 hours and so on.
- 12 **Training:** The suppliers has to be provide training to our operator of the Generating set after completion of commissining.
- 13 **Contact Person:** Mr. Kangkan-01755620780, Mr. Mortuza-01755534345.

If the rates, terms & specification are acceptable to you please sign the duplicate copy of this letter as acceptance from your end.

For Spacezero Ltd.

Director  
Spacezero Ltd.

Suppliers Acceptance

On behalf of Cross World Power Limited

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