

REF: MDL/F-06/DEV.-007(MS)/113'18  
 DATE: October 15, 2018

To  
 Md.Sohel Uddin Bhuiyan  
 Manager, Sales & Marketing  
 Cross World Power Ltd.  
 Plot # 1/B, Road # 90, Gulshan-2  
 Dhaka-1212

**Subject: Work Order for supply, installation, testing and commissioning of the 45 KVA Prime & 50 KVA Standby Diesel Generator Set for the project of Morphosis Yahya's Valley at Plot # 442, Road # 30, Mohakhali DOHS, Dhaka-1206.**

Dear Mr. Sohel,

Please refer to your offer dated October 14, 2018 on the above subject. The communication may be treated as Work Order for delivery, installation and establishment works of the following items at Morphosis Yahya's Valley at Plot # 442, Road # 30, Mohakhali DOHS, Dhaka-1206 as per your offered specifications and terms & conditions furnished below:

**Summary Table of Work Order**

Item	Description	Qty	Total Price
1.0	<b>45 KVA 3 Phase Heavy Duty Diesel Generator Set with Canopy of Perkins, U.K. Origin:</b> Model : PS45, Prime Power: 45 KVA, Standby power: 50 KVA Engine: Perkins, U.K. Start System: Automatic Microcontroller based as well manual start/Stop System. Dimension [Open set][cm]: 164X75X142X[LxWxH] Fuel Tank Capacity : 130 Liter Engine Details- Model: 1103A-33TG1, Speed: 1500RPM, Induction System: Turbocharged, Engine Type: 4 stroke multi cylinder industrial diesel engine suitable for tropical environment.	01	
2.0	<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: <b>Control Module Type:</b> Auto start [AMF] digital control module. <b>Operation:</b> Operation of the module is via push buttons mounted on the front panel with Stop, Auto and Manual positions etc. <b>Digital Instruments:</b> Ammeter, Voltmeter, Frequency meter, Run hour meter, Oil Pressure, Water Temperature etc. <b>Alarm Indicator:</b> Under/Over Volts, Under/Over Speed, Under/Over Frequency, Low Oil Pressure, High Engine Temperature, Fail to Start and Loss of speed sensing etc. <b>Load Transfer Time:</b> Adjustable, Delay on start 1 to 25 sec, delay on transfer 1 to 70 sec. <b>Engine Cooling Time:</b> 5 minutes	01	



House # 413, Road # 30  
 [2nd Floor, North], Mohakhali  
 DOHS, Mohakhali, Dhaka-1206.

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Item	Description	Qty	Total Price
	maximum, Phase Failure Relay: Digital option & control for Main's upper lower cut voltage setting and adjustable hysteresis voltage, sensing option etc.		
3.0	Automatic Transfer Switch [ATS]: Local built ATS will be supplied in a suitable steel enclosure wall mounted, fuses, magnetic contractor coil, indicator etc. Interlocking: Electrical as well as mechanical, Magnetic Contractor/Motorized switch: 3 pole, Brand of Breaker: ABB or Equivalent Europe origin, Paint: Powder coated.	01	
4.0	Acoustic Canopy: Local built Acoustic Enclosure will reduce the sound level to 75dBA @ 3 meter in open space and is complete with : (i) Air inlet and outlet options at the alternator and radiator ends respectively. (ii) Hinged access doors on either side with proper locking option. (iii) Silencer, and (iv) Cable entry gland apertures.	01	
5.0	Standard Items: (i) Lead Acid Battery 12/24 Volts as required (ii) Silencer (iii) Rubber anti vibration mountings (iv) Flexible Bellows (v) Battery Charge (vi) Main line 3 pole Circuit Breaker (vii) Alternator mounted deep sea UK original main controlling panel (viii) fuel tank for 10 hours operation.	01	
6.0	Carrying, Loading, Unloading, Installation, testing & commissioning etc.	01	
<b>Total Price in BDT</b>			<b>9,00,000.00</b>

**In Words: Nine Lac Only.**

**Terms & Conditions:**

01. Warranty/Guarantee: The provide 1500 hours or 1 (one) year full warranty for above supplied materials & establishment work from the date of delivery & installation.
02. Job (supply & installation) should be completed within February, 2019
03. Work should be completed strictly as per your quoted specification.
04. Rates mentioned in your quotations dated October 14, 2018 are final not to be changed under any circumstances.
05. The design should be approved by the MDL before installation/delivery.
06. We will take no responsibility for any accident during execution of this work at site.
07. Our authority reserves the right to cancel this work order without assigning any reason there against.

Please confirm your acceptance of the work order on the duplicate copy of this letter.

Thanking you

Yours faithfully  
**For Morphosis Developments Limited**

Ar. Tapos Kumar Roy  
 Managing Director



House # 413, Road # 30  
 [2nd Floor, North], Mohakhali  
 DOHS, Mohakhali, Dhaka-1206.

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