



চট্টগ্রাম ইন্টারন্যাশনাল মেডিকেল কলেজ ও হাসপাতাল (সিআইএমসিএইচ) Chattagram International Medical College & Hospital (CIMCH)

Ref: CIMCH/PDD/26/20

Date: 07 November'20

Workorder

Contractor Name: **Cross World Power Ltd.**

Address: Plot 1/B, Road 90, Gulshan - 2, Dhaka 1212, Bangladesh.

Attn.: **Arunangshu Paul**, Manager, Sales & Marketing.

Mobile: 01755-514747

Dear Concern,

Greeting from CIMCH Authority.

We are delighted to inform you that CIMCH Authority has decided to procure a new Generator for newly constructed building CIMCH 04 storied Hospital Building. According to your submitted quotation on 01 October 2020, the authority pleased to issue work order in favor of your company "**Cross World Power Ltd**" for supply of 200 KVA Prime/220 KVA stand by Diesel (Brand- Tempest, Engine- Parkin, UK) Generator at 04 storied Hospital Building, where the negotiated contract amount is 20,00,000/- (Twenty Lac taka only) with Installation charge.

TECHNICAL OFFER

Generator Details:

Tempest (Manufactured by Allam Marine Limited, UK) Diesel Generating Set Model: PS200 (NEW) (200KVA Prime & 220 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	: PS200 (NEW)
COUNTRY OF ORIGIN	: UK	PORT OF SHIPMENT	: Any port, UK
CAPACITY (Prime)	: 200 KVA	CAPACITY (stand by)	: 220 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) : 251X82X166 (LxWxH)		FUEL TANK CAPACITY : 533 Liters (Openset) Liter	
FUEL CONSUMPTION : 34.70 Ltr./Hr. at 75% Load			



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Engine Details:

BRAND/ORIGIN	: Perkins, UK	MODEL	: 1106A-70TAG4
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 attached Engine catalogues.

Alternator Details :

Industrial brushless AC Alternator model all other details are as follows:

BRAND/ORIGIN : Stamford, UK	Model Frequency	: UCI274H , 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.

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. All other details are as follows:

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.



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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.
LOAD TRANSFER TIME transfer 1 to 70 sec	: Adjustable, Delay on start 1 to 25 sec, Delay on transfer 1 to 70 sec
ENGINE COOLING TIME	: 5 minutes maximum
PHASE FAILURE RELAY	: 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 attached Allam's/DSE Catalogue

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 an 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

Please note that toolbox is beyond this scope of supply.

Warranty/Guarantee:

As per standard of manufacturer warranty, we provide 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). Our 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 in Basement or at Ground Floor level within Dhaka City. 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.



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Cross World Group Service Engineers will supervise all the above mentioned works. Please call Manager, Commissioning Dept. Mob. 01755 514793 for your Installation Materials list or Commissioning, or for any Emergency Service please call Manager, Service Spare Sales Dept. Mob. 01755-514820

Spare parts, After Sales Service & AMC:

We maintain sufficient stock of spare parts to meet regular demands of our valued clients. After completion of warranty period, we extend our support for servicing of the generating sets at a reasonable charge by entering into a service agreement with the customers. Our service engineers are always 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:

We will provide training to your operator of the Generating set after completion of commissioning.

FINANCIAL OFFER

1. Price:

Product Name	Unit	Price (BDT)	Qty.	Total Price(BDT)
TEMPEST Brand 200 KVA (Prime) Range Diesel Generator with Perkins engine and Stamford alternator	Set	2,000,000.00	1.00	2,000,000.00
BRAND	: Tempest			
ENGINE	: Perkins, UK			
ALTERNATOR	: Stamford, UK Leroy-Somer (TAL046C), Czech Republic			
CONTROL MODULE	: Deepsea, UK			
PORT OF SHIPMENT	: Felixstowe port, UK			
AVAILABILITY	: 5 to 15 days from ready stock subject to availability			

Engr. Md. Ohidul Islam, M. Eng.
Executive Engineer
Planning & Development Division (PDI)
CIMCH & CIDCH

Total Price (Ready Stock) in BDT 2,000,000.00

GRAND TOTAL (Excluding VAT & AIT) in BDT 2,000,000.00

Amount in words : BDT Two Million Only.

PACKING: Export friendly 'Shrink Wrap' packing.

DELIVERY: Within 5 to 15 days from the date of your valued work order, subject to availability of stock



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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.

INSTALLATION AND COMMISSIONING CHARGE: Free of Cost Without Materials.

The price quoted here includes Carrying, Loading, Unloading, Installation & Commissioning charge provided the genset is installed in Basement or at Ground Floor level within Dhaka City. 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

We offer a work order in favor of your company by following terms & Conditions:

- You have to maintain committed time frame as Generator delivery within 02 months.
- You have to complete installation procedure within 15 days after Generator delivery at site.
- Work will be done with consent of authority.
- You have to maintain calm environment during work.
- For any type of faulty work, you must be compensated.
- You must be followed strictly technical specification which mentioned in workorder.
- Authority can take any decision for any type of failor of committment as per workorder.

Payment Condition:

- 10 % -as advance along with work order
- 60% - after submitting official documents before 01 days of delivery.
- 20% - After 15 days commissioning. Payment will be made by issuing a cheque after 15 days.
- 10% - After 2 months of installation.

Prof. Dr. Kazi Deen Mohammad
Chairman, Board of Trustees
CIMCH & CIDCH Turst

CROSS WORLD POWER LTD.



To
The Chairman
CIMCH & CIDCH
206/1, Haji Chand Mia Road, Shamser Para,
Chandgaon, Chittagong-4000.

Subject: 200 kVA Generator alternator changing issue.

Dear Sir,

First of all thank you so much for your valued work order where we offered you Generator Model: PS-200 kVA, with Perkins engine (1106A-70TAG4) and Stamford alternator (UC1274H) combination.

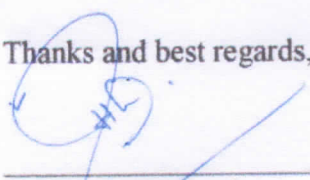
For your kind information, Stamford alternator authority shifted their UK plant, UK to China for some specific models. Unfortunately our previous used 200 kVA generator alternator (UC1274H) also include with this. So our principle ALLAM MARINR LIMITED doesn't use any kinds of China origin Engine or Alternator. That's why they decide that from now & onward they are using Leroy-Somer alternator, which is from EU origin instead of China origin Stamford alternator for all rating alternator.

It's our pleasure to inform you, from now we are going to offer you PL-200 kVA generator instead of PS-200 kVA Generator; as well as we confidently assure you the performance will have no changes at all.


Generator details are given below;

Generator Model : PL-200
Engine Brand & Model : Perkins (1106A-70TAG4), UK
Alternator Brand & Model : Leroy-Somer (TAL046C), Czech Republic
Controller Brand : Deep Sea, UK

Thanks and best regards,


Arunangshu Paul
Manager, Sales
CROSS WORLD POWER LTD.




Engr. Md. Ohidul Islam, MIE
Executive Engineer
Planning & Development Division (PDD)
CIMCH & CIDCH

3

4