

November 6, 2018

Cross World Power Ltd

Plot #1/B, Road #90
Gulshan # 2,
Dhaka 1212
Fax: 58815160
Ph : 58811858

Attn: Md. Mizanur Rahman (Cel# 01755 69 41 21)

Ref: CWPL-AM/3398/18-R01

Sub : Work Order for Supply & Installation of Prime-300 KVA (01 Unit) Diesel Generator at our Khan Brothers Ship Builders, Gozaria, Meghna Ghat, Munshigonj

Dear Sir,

In Accordance with above subject and subsequent quotation CWPL-AM/3398/18-R01 dated November 6, 2018, the management of city group is pleased to issue the work order against purchase of 01 (One) unit Stand-by Generator for **Khan Brothers Ship Builders, Gozaria, Meghna Ghat, Munshigonj** The rates, specification, terms & conditions are enclosed herewith this Work Order.

Total Price : 30,25,000

(TAKA IN WORD: Thirty Lac Twenty Five thousand Taka only)

Other specification, rate, terms and conditions will be as follows:

Generator Details:

Tempest (Manufactured by Allam Marine Limited, UK) Diesel Generating Set Model: PS300 (NEW) (300KVA Prime & 330 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 : PS300 (NEW) |
| COUNTRY OF ORIGIN : UK | PORT OF SHIPMENT : Any port, UK |
| CAPACITY (Prime) : 300 KVA | CAPACITY (stand by) : 330 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) : 280X111X187 (LxWxH) | FUEL TANK CAPACITY : 638 (Open) & 500 (Canopied) Liter |

Handwritten notes and signatures:
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FUEL CONSUMPTION : 46.70 Ltr./Hr. at 75% Load

Engine Details:

| | |
|--|---------------------------------|
| BRAND/ORIGIN : Perkins, USA | MODEL : 1506A-E88TAG5 |
| 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 | |

Alternator Details :

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

| | |
|---|---|
| BRAND/ORIGIN : Stamford, UK | Model / Frequency : HCI444D / S4L1DD , 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 |

ALARM INDICATOR
Pressure,

Temperature etc.
: Under/Over Volts, Under/over speed, Under/Over Frequency, Low Oil

LOAD TRANSFER TIME
ENGINE COOLING TIME
PHASE FAILURE RELAY

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 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 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 & Guaranty:

As per standard of manufacturer, Cross World Power Ltd. provide 3000 hours or 2 year warranty whichever comes first, effective from the date of delivery at the client's premises. 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 and 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

Cross World Group Service Engineers will supervise all the above mentioned works. For on call service Manager, Commissioning Dept. Mob. 01755 514793 for our Installation Materials list or Commissioning, or for any Emergency Service on call service will be available by Manager, Service Spare Sales Dept. Mob. 01755-514820

Training:

Cross World Power Ltd will provide training to your operator of the Generating set after completion of commissioning. For CROSS WORLD POWER LTD

Terms & Condition:

Handwritten signature and date: 06/11/18

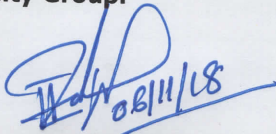
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01. **Material:** All goods/ service are to be supplied according to the description / specification given in the Work order & Bidders quotation (Ref: CWPL-AM/3398/18-R01 dated November, No discrepancy is acceptable without prior agreement / consent in writing.
02. **Installation & Commissioning:** Engineering supervision, Installation & Commissioning free of cost by the supplier. But cost of all materials i.e. Cement, M.S Rod, Sand, Brick, Bolts related to civil works & Electrical Power cables, Earthing etc. will be supplied by buyer.
03. **Challan:** Challan in triplicate shall be submitted at the time of delivery of materials. One copy (Duplicate) will be returned after acknowledgement of receipt of materials and the company will retain other copies.
04. **Transit Risk:** The supplies 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 at the time of delivery of the Generators. Any damage to the goods in transit will be supplier's responsibility.
05. **After Sales Service:** Supplier will ensure after sales service free of cost during the warranty period. And after completion of the period both party may engage in an agreement under mutual understanding.
06. **Training:** Necessary in country training for operators and mechanics will be provided free of charge at the time of Commissioning the Genset by the suppliers.
07. **Spares:** supplier will ensure the spare part Pavailability during that life time. If the part is not locally available then the supplier will arrange it with 10 working days to make it air freighted to purchaser directly from UK.
08. **Termination:** City Group 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 City Group has every right to impose penalty against sole discretionary power of City Group management.
09. **Mode of Payment:**
 - i. Taka 10,00,000 (Ten Lac) only will be paid as advance
 - ii. Rest taka 20,25,000/= will be paid After successful commissioning and handover.
10. **Delivery:** Generator Sets will be **delivered to the site within November 10, 2018**
11. **Warranty:** 1-Year warranty from the date of hand over for all non-consumable items.

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

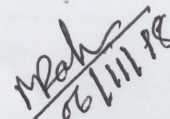
Agreed

for City Group.



AGM, Procurement

For the Supplier



Cross World Power Ltd