

November 23, 2020
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/6386/20-R01F

Sub : Work Order for Supply & Installation of Prime-500 KVA (01 Unit) 3 Phase Diesel Generator at our City Sugar Industries Ltd, Rupshi, Rupganj, Narayanganj.

Dear Sir,

In Accordance with above subject and subsequent quotation CWPL-AM/6386/20-R01F dated November 18, 2020 the management of city group is pleased to issue the work order against purchase of 01 (One) unit Stand-by Generator for City Sugar Industries Ltd, Rupshi, Rupganj, Narayanganj. The rates, specification, terms & conditions are enclosed herewith this Work Order.

Total Price: 4,150,000/-

(TAKA IN WORD: Forty One Lac Fifty 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: PS500# (SOOKVA Prime & 520 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 : PS500#
COUNTRY OF ORIGIN : UK	PORT OF SHIPMENT : Any port, UK
CAPACITY (Prime) : 500 KVA	CAPACITY (stand by): 520 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) : 340X113X222 (LxWxH)	FUEL TANK CAPACITY : 1106 (Open) Liter
FUEL CONSUMPTION : 76.00 Ltr./Hr. at 75% Load	

Engine Details:

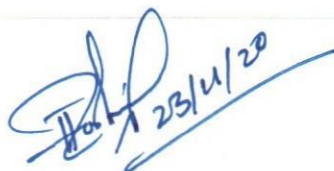
BRAND/ORIGIN : Perkins, UK / USA	MODEL : 2506A-E15TAG2
SPEED : 1500 RPM	INDUCTION SYSTEM : Turbocharged
ENGINE TYPE : 4 stroke multi cylinder industrial diesel Engine suitable for tropical environment	
COOLING SYSTEM : Water cooled (Radiator cooled with engine driven fan)	
PROTECTION : Over speed, under 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 : HCI544C , 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 : +1% / +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.
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	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 anti vibration mountings
- (iv) Flexible Bellows
- (v) Battery charger
- (vi) Main Line 3 pole Circuit Breaker (as per Alternator rating and MCCB Must be EU/Japan/USA Origin)
- (vii) Alternator mounted Deep Sea UK original main controlling panel
- (viii) Fuel tank for 10 hours operation

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23/11/20

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

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.

Terms & Conditions

01. Material: All goods/ service are to be supplied according to the description / specification given in the Work order & Bidders quotation CWPL-AM/6386/20-R01F dated November 18, 2020. 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 availability 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. 1st Payment: 50% after Delivery at Site
- ii. Final Payment: Rest of 50% will be paid after successful commissioning and handover.



10. Delivery: Cross World Power Ltd are committed to make the deliver from their ready stock after getting confirmation from City Group.

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



A.S.M. Tauhid Ur Rashid Chowdhury
Assistant General Manager- Procurement
City Group

For the Supplier

Md. Mizanur Rahaman
Engineer- Project Sales
Cross World Power Ltd.