



**INDO-BANGLA**  
PHARMACEUTICALS LTD.  
*Good Health Good Life*

**IBPL-164/2020**

**Dated: 01.10.2020**

Cross World Power Ltd  
Plot 1/B, Road 90, Gulshan - 2,  
Dhaka 1212, Bangladesh

**Subject: Work Order for Delivery, installation & commissioning of 650 KVA Genset.**

Dear Sir,

As per your quotation date of 08-09-2020, Ref. No CWPL-AM/5618/20F & technical offer no #CWPL-AM/5618/20 to Indo-Bangla pharmaceuticals ltd, we are hereby confirmed you and providing order to supply OF 650 KVA 3 Phase Heavy Duty Diesel Generating Sets Items. Please received this work order and take necessary steps accordingly.

**Require:**

Particulars	Qty	Price(BDT)
TEMPEST Brand 650 KVA (Prime) Rating Diesel Generator With Perkins engine & Stamford alternator	01	54,00,000.00
Brand : Tempest		
Engine : Perkins, UK/ USA		
Alternator : Stamford, UK		
Control Module : Deepsea, UK		
Port of Shipment : Delivery from ready stock.		
Total :		54,00,000.00/-

**In Words: Fifty Four lac Taka only.**

**Terms & Condition:**

- All the above items would be as per GMP requirement.
- Full Payment will be made subject to receiving successful Engineering department report.
- Any kind of query please contact Mohammed Anwar Hossain, General Manager, Indo-Bangla Pharmaceuticals Ltd. cell No-01613911800.
- Product will be delivery after Factory address-Indo-Bangla Pharmaceuticals Ltd, College Road, Barisal in your own cost.



# INDO-BANGLA PHARMACEUTICALS LTD.

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- While you are submitting the bill you must submit the copy of work order and delivery challan along with the bill.

**Payment Terms:** Amount of BDT 54,00,0000 will be paid in advance along with work order.

**Packing** : Export friendly 'Shrink Wrap' packing

**Delivery** : Within 5-8 days from the ready stock after having work order & PDC Guarantee.

**Completion of the work:** Installation commission and testing of the genset would be completed within reasonable time by Cross World.

**Installation and Commissioning Charge:** Free of cost without materials.

The price quoted here includes carrying, loading, unloading, installation & commissioning charge provided the genset will be installed in IBPL factory College Road, Barisal.

### Generator Details:

Tempest (Manufactured by Allam Marine Limited, UK) Diesel Generating set  
odel:PS650(650KVA Prime & 710 KVA Standby).at 1500rpm, 50 Hz, 4 wire, 400/230 volts  
at 0.8 power factor.

Brand	: Temptest	Model	: PS650
Country of Origin	: UK	Port of Shipment	: Ready stock, Local
Capacity	: 650 KVA	Capacity(Stand by)	: 710KVA
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)	: 340x154x227 (LxWxH)	Fuel Tank Capacity : 1539 (open) & 1080(canopied)	
Fuel Consumption	: 97.00 Ltr./Hr.at 75% Load		





**Engine Details:**

<b>Brand / Origin</b> : Perkins, UK/USA	<b>Model</b> : 2806A-E18TAG2
<b>Speed</b> : 1500 PRM	<b>Induction System</b> : Turbocharged
<b>Engine Type</b> : 4 stroke multi cylinder industrial diesel Engine suitable for tropical environment	
<b>Cooling System</b> : Water cooled (Radiator cooled with engine driven fan)	
<b>Protection</b> : Over speed, Under speed, oil pressure, over heating etc	
<b>Fuel Tank</b> : 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:

<b>Brand /Origin</b> : Stamford, UK	<b>Model / Frequency</b> : HCI544F, 50 Hz
<b>Phase</b> : 3 Phase	<b>Output ( Volts)</b> : 400/415 volts (Line to Line)
<b>Cooling</b> : Air Cooling	<b>Insulation Type</b> : Class ``H``
<b>Protection:</b> Industrial brushes design screen protected, fan ventilated, drip-proof, self-exciting in accordance	
<b>Voltage Regulator:</b> Automatic Voltage Regulator (AVR)	
<b>Voltage Regulation:</b> $\pm 1\%$ / $\pm 1.5\%$ power factor between 0.8 & 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 Frequency, Low oil pressure, High Engine Temperature 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 Mains 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 on 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

**A set of toolbox must be supplied with this supply.**





**Warranty/Guarantee:**

As per standard of manufacturer warranty, You will 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). Your 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 on of the genset.

**Installation & Commissioning:**

The price quoted here includes Carrying, Loading, Unloading, and Installation on & Commissioning charge provided the genset will be installed in Basement or at Ground Floor level in Factory, college Road, Barishal. **However, this offer does not include the cost of commissioning materials, such as, Power/Control Cable, Diesel, Civil works, Ducting, Manual labor, Silencer pipe Extension Work, & any other materials that may be necessary for installation on of the generator set except Lube Oil & Coolant.**


**Spare parts, after Sales Service & AMC:**

Cross world maintain sufficient stock of spare parts to meet regular demands of IBPL. After completion on of warranty period, you will extend your support for servicing of the generating sets at a reasonable charge by entering into a service agreement with us. Your 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:**

Cross world will provide training to our operator of the Generating set after completion of commissioning.

Thanking You,

  
( A.F.M Anowarul Huq )

Managing Director

Indo-Bangla Pharmaceuticals Ltd